



GENESYS[™] G Series Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

! Advanced Features Built-In !

Arbitrary Waveform Generator with Auto-Trigger Capability

 Programmable Slew Rate Control (Vout/lout)

 Constant Power Limit Operation • Internal Resistance Programming

 Built-In Remote Isolated Analog Interface
 Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 Blank Front Panel Option Available





Trusted • Innovative • Reliable





The **G***E***NESYS**[™] family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

Features include:

- Leading DC Programmable power density (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs: G1kW/1.7kW: 1ø (85~265VAC)
 G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
 G5kW / G7.5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed controlled by ambient temperature and load
- Certified LabWindows[™]/CVI, LabVIEW[™], and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

G*E***NESYS**[™] power supplies have been designed to meet the demands of a wide variety of applications.

Test & Measurement systems, Component Device Testing, Manufacturing and process control. Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology. Higher power systems can be configured with up to twelve (12) 7.5kW units. Each unit is

1U with zero space between them (zero stack).

OEM Designers have a wide variety of Inputs and Outputs from which to select depending on

application and location.



G1kW-7.5kW Front Panel Description



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

G1kW-5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- G2.7kW / G3.4kW / G5kW AC Input: 208VAC, 400VAC & 480VAC, Three Phase, 50/60 Hz. (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. G1.7kW / G2.7kW / G3.4kW AC Input Single Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief. G1kW AC Input Connector: IEC320 C16.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.
- 13. G+ 5kW 1000V and 1.500V has the same housing as 7.5kW



G7.5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections.
 - Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 8. G7.5kW: AC Input: 480VAC, Three Phase, 50/60 Hz. (Model shown)

AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. AC Input: 208VAC, Three Phase, 50/60 Hz.

AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.

Ωptional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.

- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

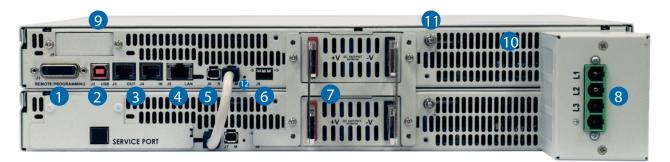


GSP10kW Front Panel Description

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TOKLambda CPC home home home home home home home home	
	PLOG STST/A CON PROT COMM FINE PREV

- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

GSP10kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LX/1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz.
 AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

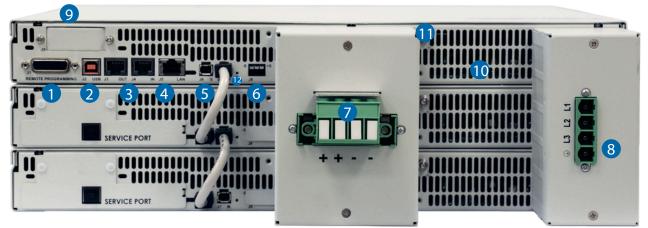


GSP15kW Front Panel Description

TOK-Lambda Care is toto a latve isoa Charar kagay	2		1500 <i>R</i>	
		5	6	
				J

- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

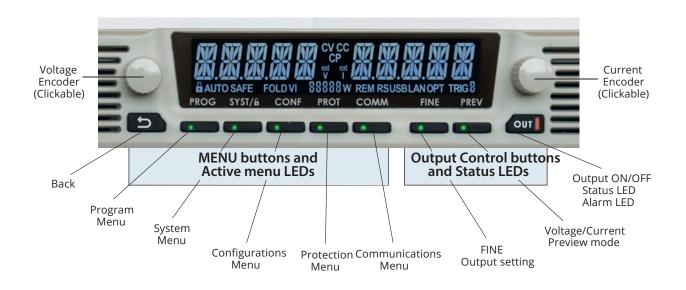
GSP15kW Rear Panel Description



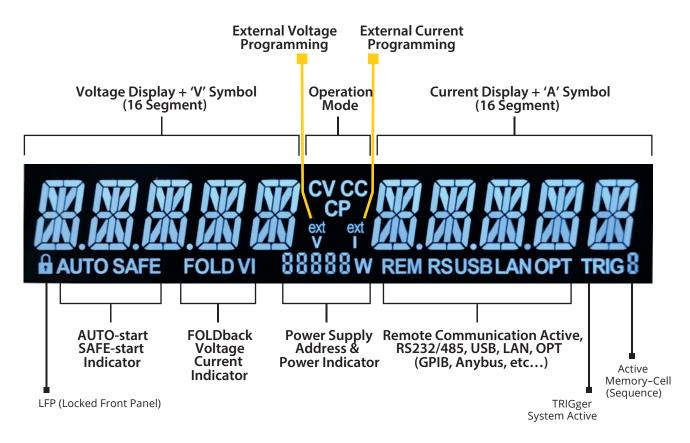
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LX/1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V (shown).
- Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz.
 AC Input Plug Connector: PHOENIX CONTACT DFK-PC 16/4-ST-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.



Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators





GENESYS™ G&GSP Series Blank Front Panel (ATE version)



A Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (Digital/Analog) is needed.

The Blank Front Panel option has all the standard product functions and features except the display.

The power supply can be controlled via the rear panel Remote digital interface

(LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

G*E***NESYS[™]** Parallel and Series Configurations

Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to twelve (12) identical units to be connected

Total real current is programmed measured and reported by the Master. Up to twelve (12) supplies operate as one.

Separate Parallel Kit available for 30kW (6 unit) systems

allowing easy system setup. Order P/N: G/P - 6U

Series operation

Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

Multi-Drop Remote Programming via Communication Interface

Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.

RS-485 Link RS-485 Link RS-485 Link RS-485 Link

LAN, USB, RS-232, RS-485, IEEE, AnyBus

TITT

Standard Unit - zero stacked up to 12 units

OUT (LED)



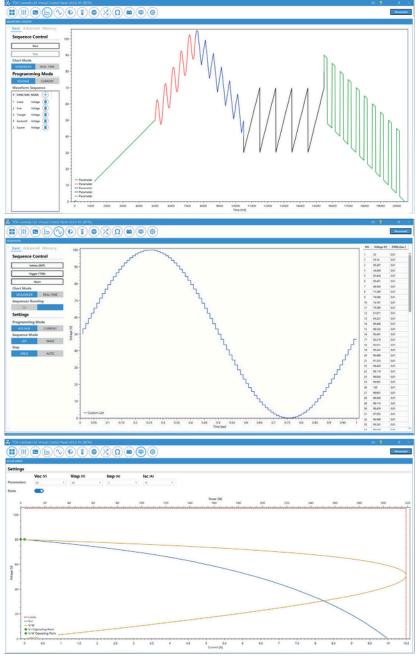


Graphical User Interface

Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 1. 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. 2. Automatically detect power supplies connected to a PC and/or local network.
- 3. 3. Advanced Terminal, including Modbus-TCP and EtherCAT communication interfaces.
- 4. 4. Real-time Graph and Waveform creator, including pre-built functions i.e. Sine, Triangle and Square.
- 5. 5. Solar array simulation based on VOC, VMP, IMP, ISC.
- 6. 6. Advanced functions control Slew-Rate, Internal Resistance and Constant Power.
- 7. 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.







How to order G1kW/1.7kW - Power Supply Identification / Accessories

G	10	- 170	-	-		-	
Series Name	Output	Output	Ir	nterface Options	AC Cord Options only for 1kW	Acce	ssories Options
Front Panel Type	Voltage	Current			Region: E - Europe	M - P	rinted *User Manua
Empty: standard	(0 ~10 V) (0~170A)			U - North Amer	ica	r Manual & GUI are able on the website
B: Blank Front Pa	inel (ATE version)				J - Japan	P - Bu	us Parralleling Cable
				V	C - China		
AC Inputs (Al	l Models)				I - Middle East		
1Ø, 85 ~ 265Vad Interface Op		ry installed)		P/N			
	-	ılti-Drop capabili	-	-			
		Drop capability -	built-in	-			
RS-232/RS-485				-			
Isolated Analog	0			-			
(5V/10V Pgm/M	on with 600V is	olation) - built-in	1				
IEEE (488.2 & SC	Pl compliant w	ith Multi-Drop ca	apability instal	MDBS			
Modbus-TCP				ECAT			
EtherCAT			<i>c</i>	IS420			
0	0	am/Monitor Inte	rtace				
(4mA-20mA wit Models 1kM	n 600V isolatio	n)					
	Voltage (V)		Power (W)	Model	Voltage (V) Cu	rrent (A)	Power (W)

Model	Voltage (V)	Current	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	(A)	1000	G80-12.5	0~80V	0~12.5	1000
G20 -50	0~20V	0~10_0	1000	G100-10	0~100V	0~10	1000
G30 - 34	0~30V	0~50_0~34	1020	G150-7	0~150V	0~7	1050
G40 -25	0~40V	0~25 0~17	1000	G30 0 -3. 5	0~30 0V	0~3.5	1050
G60-17	0~60V	0 20 0 17	1020	G600-1.7	0~600V	0~1.7	1020

Models 1.7kW

Model	Voltage (V)	Current	Power	Model	Voltage (V)	Current (A)	Power
G10-170	0~10V	(A) 0~170	(W) 1700	G80-21	0~80V	0~21	(W) 1680
G20-85	0~20V	0~85	1700	G100-17	0~100V	0~17	1700
G30-56	0~30V	0~56	1680	G150-	0~150V	0~11.2	1680
G40-42	0~40V	0~42	1680	11.2	0~300V	0~5.6	1680
G60-28	0~60V	0~28	1680	G300-5.6	0~600V	0~2.8	1680
Accession				G600-2.8			

Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable. RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Con	n edto F. Shielded L=2m. RJ-4	5DB-9F. Shielded L=2m, RJ-4
P/N	GEN/485-9	GEN/232-9

2. Serial link cable (Included with the power supply)

Daisy-chain up to 3 GENESYS[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/	
2013595-1 (TYCO)	Shielded L=11cm	Ν	
		CI	
4. User Manual		G/	



How to order G2.7kW / 3.4kW - Power Supply Identification / Accessories

G	10	340		
Series Name	Output	Output	Interface Options	AC Input Options 1P208
Front Panel Type	Voltage	Current	:	(Single Phase 170~265VAC)
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase
B: Blank Front P	anel (ATE v	ersion)		170~265VAC) 3P400 (Three
				Phase 342~460VAC) 3P480
Interface Opti	ons (Facto	ory installed)	P ^N N	(Three Phase 342~528VAC)

Accessories Options

available on the website

P - Bus Parralleling Cable

USB 2.0 compliant with Multi-Drop capability - built-in	-
RS-232/RS-485 - built-in	-
lsolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in	-
IEEE (488.2 & SCPI compliant with Multi-Drop capability in	nsntea∰eed)
Modbus-TCP	MDBS
EtherCAT	ECAT
lsolated Analog Current Program/Monitor Interface (4mA-20mA with 600V isolation)	IS420

LAN (1.5 compliant with Multi-Drop capability)- built-in

Models G2.7kW

Model	Output Voltage VDO	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power
G10 -265	0~10V	0~265	2650	G80 - 34	0~80V	0~34	(W)
G20-135	0~20V	0~135	2700	G100-27	0~100V	0~27	2720
G30 -90	0~30V	0~90	2700	G150 - 18	0~150V	0~18	2700
G40-68	0~40V	0~68	2720	G30 0 -9	0~300V	0~9	2700
G60 - 45	0~60V	0~45	2700	G600-4.5	0~600V	0~4.5	2700
							2700

Models G3.4kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
		0 240	2400				2260
G10-340	0~10V	0~340	3400	G80-42	0~80V	0~42	3360
G20-170	0~20V	0~170	3400	G100-34	0~100V	0~34	3400
G30-112	0~30V	0~112	3360	G150-22.5	0~150V	0~22.5	3375
G40-85	0~40V	0~85	3400	G300-11.5	0~300V	0~11.5	3450
G60-56	0~60V	0~56	3360	G600-5.6	0~600V	0~5.6	3360

Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable. RS-232/RS-485 cable is used to connect the power supply to the Host PC

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Con	n @@B:@F. Shielded L=2m. RJ-4	5DB-9F. Shielded L=2m, RJ-4
P/N	GEN/485-9	GEN/232-9

2. Serial link cable (Included with the power supply)

Daisy-chain up to 3 GENESYS[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/
2013595-1 (TYCO)	Shielded L=11cm	N
	•	<u><u> </u></u>
A Llser Manual		G/
4. User Manual		G/

M - Printed *User Manual * User Manual & GUI are



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How to order G5kW - Power Supply Identification / Accessories

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Series Name Font PachetpType	Output	Interface Options	AC Input Options 3P208	Accessories Options
Empty: standard Voltage	Current		(Three Phase 170~265VAC)	M - Printed *User Manual
B: Blank Front Panel (ATE	(0~500A)		3P400 (Three Phase	* User Manual & GUI are
version)			342~460VAC) 3P480 (Three	available on the website
			Phase 342~528VAC)	P - Bus Parralleling Cable
Interface Options (Factory	(installed)	P/N		
LAN (III 1.5 compliant with Multi-	Drop capability)- l	built-in -		
USB 2.0 compliant with Multi-Dro	op capability - buil	t-in -		

LAN (🕅 1.5 compliant with Multi-Drop capability)- built-i	n -
USB 2.0 compliant with Multi-Drop capability - built-in	-
RS-232/RS-485 - built-in	-
lsolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in	-
IEEE (488.2 & SCPI compliant with Multi-Drop capability	ins teatle d)
Modbus-TCP	MDBS
EtherCAT	ECAT
lsolated Analog Current Program/Monitor Interface (4mA-20mA with 600V isolation)	IS420

0~500

0~250

0~170

0~125

0~100

0~85

0~65

0~50

W)	Model	Voltage (VDC)	Current (A)	Power (W)
	G150-34	0~150V	0~34	5100
	G200-25	0~200V	0~25	5000
	G300-17	0~300V	0~17	5100
	G400-13	0~400V	0~13	5200
	G500-10	0~500V	0~10	5000
	G600-8.5	0~600V	0~8.	5100
	G1000-5	0~1000V	5	5000
	G1500-3.	4 0~1500V	0~5	5100

0~3.

Models 5kW Model Voltage (VDC)Current (A) Power (V

G10-500

G20-250

G30-170

G40-125

G50-100

G60-85

G80-65

G100-50

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Accessories will be sent separately from the Power Supply packing, according to order.

5000

5000

5100

5000

5000

5100

5200

5000

1. Serial Communication cable

0~10V

0~20V

0~30V

0~40V

0~50V

0~60V

0~80V

0~100V

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

RS-485	RS-232
DB-9F	DB-9F
Shielded L=2m	Shielded L=2m
RJ-45	RJ-45
GEN1/185-0	GEN/232-9
	DB-9F Shielded L=2m

2. Serial link cable (Included with the power supply)

Daisy-chain up to 3 GENESYS[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/
2013595-1 (TYCO)	Shielded L=11cm	N
A Llear Manual		G/
4. User Manual		D

5. Parallel Kit: 20kW/30kW

G/P-4U: BusBar Parallel Kit for 20 kW operation (5kW Models where Vout up to 100V) G/P-6U: BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)



How to order G7.5kW - Power Supply Identification / Accessories

	G	20 -	375			
Series	Name	Output	Output	Interface Options	AC Input Options 3P208	Accessories Options
Front	Panel	Voltage	Current		(Three Phase 170~265VAC)	M - Printed *User Manual
Туре	Empty:	(0~20V)	(0~375A)		3P480 (Three Phase	* User Manual & GUI are
Banglar	ink Front F	anel (ATE v	ersion)		342~528VAC)	available on the website
				•		P - Bus Parralleling Cable
Interf	face Opti	ions (Facto	ory installed)	P/N		
lan (LX	1.5 compl	liant with Mu	lti-Drop capability)-	built-in -		
USB 2.0	0 complian	t with Multi-D	Drop capability - bu	ilt-in -		
RS-232	/RS-485 - b	ouilt-in		-		
(5V/10)	V Pgm/Mor		itor Interface solation) - built-in vith Multi-Drop capa	- ability ins te∄t ed)		

Modbus-TCP	MDBS
EtherCAT	ECAT

Models 7.5kW

Model	Voltage (VD0)Current (A)	Power (W)	Model G15	ଷ-ରା0 age (VDC)	Current (A)	Powe
G20	0~20V	0~375	7500	G200-37.5	0∼2 050₩	0~50	(W) 7
-375	0~30V	0~250	7500	0~300V		0 ~37.5	7500
G30-	0~40V	0~188	7520	G900=2 3.5	0~600V	0~25	7500
250	0~60V	0~125	7500	G1000-7.5	0~1000V	0~12.5	7500
G40-	0~80V	0~94	7500	0~1500V		0~7.5	7500
188	0~100V	0~75	7500	G1500-5		0~5	7500
G60-							

125

G80-94 Accessories

Accessories will be sent separately from the Power Supply packing, according to order. **1. Serial Communication cable**

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shielded L=2m RJ-45	DB-9F Shielded L=2m RJ-45
P/N	GEN/485-9	GEN/232-9

2. Serial link cable (Included with the power supply)

Daisy-chain up to 3 **G***E***NESYS**[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/	
2013595-1 (TYCO)	Shielded L=11cm	N	
4. User Manual	· ·	G/	
Printed User Manual		Ğ/M	

5. Parallel Kit: 30kW/45kW

G/P-4U: BusBar Parallel Kit for 30 kW operation

G/P-6U: BusBar Parallel Kit for 45 kW operation



How to order GSP10kW-15kW - Power Supply Identification / Accessories

-

G SP 10 - 1500

Series Name Output Output Interface Options AC Input Options 3P208 Acce	ccessories Options
Front Panel Type Voltage Current (Three Phase 170~265VAC) M - P	- Printed *User Manual
Empty: standard(0~10V)(0~1500A)3P400(ThreePhase* Use	User Manual & GUI are
B: Blank Front Panel (ATE version) 342~460VAC) 3P480 (Three ava	vailable on the website
Interface Options (Factory installed) Phase 342~528VAC)	
LAN (💯 1.5 compliant with Multi-Drop capability)- built-in -	
USB 2.0 compliant with Multi-Drop capability - built-in -	

LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in	-
USB 2.0 compliant with Multi-Drop capability - built-in	-
RS-232/RS-485 - built-in	-
lsolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in	-
IEEE (488.2 & SCPI compliant with Multi-Drop capability inst	cætleed)
Modbus-TCP	MDBS
EtherCAT	ECAT
Isolated Analog Current Program/Monitor Interface (4mA-20mA with 600V isolation)	IS420

Voltage (VDC) Current (A) Power (kW)

0~1000

0~500

0~340

0~250

0~200

0~170

0~130

Model	Voltage (VDC)	Current (A)F	ower (kW)
GSP100-10	0 0~100V	0~100	10
GSP150-68	0~150V	0~68	10.2
GSP200-50	0~200V	0~50	10
GSP300-34	0~300V	0~34	10.2
GSP400-26	0~400V	0~26	10.4
GSP500-20		0~20	10
GSP600-17	0~600V	0~17	10.2

Models GSP 10kW

0~10V

0~20V

0~30V

0~40V

0~50V

0~60V

0~80V

Model GSP10-1000

GSP20-500

GSP30-340

GSP40-250

GSP50-200

GSP60-170

GSP80-130

Models GSP 15kW

Model	Voltage (VDC)Current (A)	Power (kW)	Mode	el	Voltage (VDC))C
GSP10-1500) 0~10V	0~1500	15	GSP1	00-150	0~100V	
GSP20-750	0~20V	0~750	15		50-102		
GSP30-510	0~30V	0~510	15.3		00-75	0~200V	
GSP40-375	0~40V	0~375	15		00-51	0~300V	
GSP50-300	0~50V	0~300	15	GSP4	00-39	0~400V	
GSP60-255	0~60V	0~255	15.3	GSP5	00-30	0~500V	
GSP80-195	0~80V	0~195	15.6	GSP6	00-25.5	0~600V	

10

10

10.2

10

10

10.2

10.4

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-150	0~100V	0~150	15
GSP150-102		0~102	15.3
GSP200-75	0~200V	0~75	15
GSP300-51	0~300V	0~51	15.3
GSP400-39	0~400V	0~39	15.6
GSP500-30	0~500V	0~30	15
GSP600-25.5	0~600V	0~25.5	15.3

Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector	DB-9F	DB-9F
Communication Cable	Shielded L=2m	Shielded L=2m
Power Supply Connector	RJ-45	RJ-45
P/N	GEN/485-9	GEN/232-9

2. Bus Paralleling cable (Included with the power supply)

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P
2 Heer Menuel		

3. User Manual

Printed User Manual	G/M
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GENESYS[™] Family Output Voltage and Current

Models Series			•	ront Pane Front Pai				GSI (Scalal	P/GBSP ble Power)
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	5kW - HV	7.5kW	10kW	15kW
Voltage Range				Cı	urrent Rar	nge (A)			
0-10V	0~100A	0~170A	0~265A	0~340A	0 ~50		-	0~1000A	0~1500A
0 -20V	0~50A	0~85A	0~135A	0~170A	0A		0~375A	0~50 0A	0~750A
0 -30V	0~34A	0~56A	0~90A	0~112A	0~250		0~250A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	А		0~188A	0~250A	0~375A
0 -50V	-	-	-	-	0~170		-	0~200A	0~30 0A
0 - 60V	0~17A	0~28A	0~45A	0~56A	Ang O		0~12 5A	0~170A	0 ~2 55A
0-80V	0~12.5A	0~21A	0~34A	0~42A	~1835 A		0~94A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	Q~10Q		0~75A	0~100A	0~150A
0-150V	0~7A	0~11.2/		0~22.5A	A5A 0		0~50A	0~68A	0~102 A
0 -20 0V	-	-	-	-	~50A		0~37.5A	0~50A	0~75A
0 -30 0V	0~3.5A	0~5.6A	0~9A	0~11.5A	0		0~25A	0~34A	0~51A
0-400V	-	-	0~ JA	-	~34A		-	0~26A	0~39A
0 -50 OV	-	-		-	0 ~2		-	0~20A	0~30A
0-600V	0~1.7A	0~2.8A	-	0~5.6A			0~12.5A	0~17A	0~25.5A
0-1000V			0~4.5A		₫ <u>А</u> 8.9А		0~7.5A		
0 -150 0V			-		~17A	0~0.5A			
Weight (kg/lb)	- E /11	- E /1 1	-	_	0	0~3.4A		155/242	-
	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	8.5/18.7	15.5/34.2	23.5/51.8

AC Input Range

~10A

Летиристини								
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vad	: N/A	N/A	*	*	N/A	N/A	N/A	N/A
3P20	N/A	N/A	*	*	*	*	*	*
8 3P4	N/A	N/A	*	*	*	N/A	*	*
0 0			*	*	*	*	*	*

3P208³(Three Phase 170~265VAC), 3P400 (Three Phase 342~460VAC), 3P480 (Three Phase 342~528VAC) 0

Also available GH 1kW/1.5kW Series Half-Rack 1kW/1.5kW in 1U Height

Models 1kW

Model	Voltage (V)	Current (A)	Power
G H10 -10 0	0~10V	0~100	(W)
GH20 -50	0~20V	0~50	1000 1000
GH30 -34	0~30V	0~34	1020 1000
GH40 -25	0~40V	0~25	1020 1000
GH60-17	0~60V	0~17	1020

Models 1.5kW

Model	Voltage (V)	Current (A)	Power
G H10 -15 0	0~10V	0~150	(W)
GH20 -75	0 ~20V	0~75	1500 1500
GH30 -50	0 ~30V	0~50	1500 1500
GH40 -38	0~40V	0~38	1500 1520
GH60 -25	0~60V	0~25	1500



Model	Voltage (V)	Current (A)	Power
GH80-12.5	0~80V	0~12.5	(W)
G H10 0 -10	0~100V	0~10	1000 1000
G H15 0 -7	0~150V	0~7	1050 1050
G H30 0 -3.5	0~30 0V	0~3.5	1020
GH600-1.7	0~600V	0~1.7	1020

Model	Voltage (V)	Current	Power
GH80 -19	0~80V	(A)	(W)
G H10 0	0~100V	0~19 0~15	1520 1500
-15 G H15	0~150V	0~10 0~5	
0 -10 G	0~30 0V		1560
H30 0 -5	0~600V	2.0	1500
GH600-			

2.6



GENESYS[™] 1kW SERIES SPECIFICATIONS

DUTPUT RATING	6	10.100	20.52	20.01	40.05	co :=	00 10 5	100.10	450 -	200.0.5	600 t -
.Rated output voltage(*1)	G	10-100 10	20-50 20	30-34 30	40-25 40	60-17 60	80-12.5 80	100-10 100	150-7 150	300-3.5 300	600-1.7 600
.Rated output voltage(*1)	A	100	50	30	25	17	12.5	100	7	3.5	1.7
.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
Input voltage/freg. (*3)				47~63Hz, Sir		00	00	100	150	500	000
Maximum Input current at 100% load (100/200)	A	12.5/6.5	continuous,	47~03112, 311	igie ritase						
Power Factor (Typ)			ac 0.98 @ 200	0Vac, rated o	utput power						
Efficiency at 100 Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
Inrush current (*5)	A	Less than 50	A								
INSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
Max. Line regulation (*6)					40	00	00	100	150	500	600
fax. Load regulation (*7)			ed output vo								
ipple and noise (p-p, 20MHz) (*8)	mV		ed output vo		4.0	10					
Ripple r.m.s. 5Hz~1MHz (*8)	mV	50	50	50	60	60	75	75	75	120	500
Femperature coefficient		6	6	6	7	7	10	12	9	20	100
emperature stability				put voltage,			<u>.</u>				
Warm-up drift					-		arm-up. Cons		nd & temp.		
Remote sense compensation/wire (*10)			01% of rated	output volta	ige+2mV ove	r 30 minutes	following p	ower on.	1		1
	V	2	2	5	5	5	5	5	5	5	5
Jp. prog. Response time (*11) .Down prog.response time:	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
Transient response time	mS	Time for out	put voltage f	to recover wi	thin 0.5% of	ts rated outp	out for a load	change 10~	90% of rated	output curre	nt. Output
		10~100%, L	ocal sense. Le	ess than 1mS	, for models	up to and inc	luding 100V	2mS, for mo	dels above i	100V.	
Start up delay	Sec	Less than 6									
Hold-up time	mS				20	ms typical, ra	ted output p	ower			
INSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
Aax. Line regulation (*6)				rrent. +2mA		00	00	100	155	300	000
Max. Line regulation (*9) Max. Load regulation (*9)				irrent. +5mA							
Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	₽₽₩А∕∘с		≤160 ≤	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
	PPM/°C) minutes wa		510	20	20
emperature stability						-	minutes wa				
Varm-up drift						-	arm-up. Cons		d e tompor		
										ature.	
		150V~600V	Less than +/	-0.15% of rat	ed output cu	irrent over 3	over 30 minu 0 minutes fol	lowing pow	er on.		
ALOG PROGRAMMING AND MONITORING (ISOL	ATED F	ROM THE OL	JTPUT)								
/out voltage programming		0~100%, 0~	5V or 0~10V,	user selecta	ble. Accuracy	and linearit	y: +/-0.15% o	f rated Vout			
ut voltage programming (*14)					,		: +/-0.4% of ra				
out resistor programming				Ill scale, user		,			d Vout		
					selectable. F	ccuracy and	linearity: +/-				
out resistor programming (*14)		0~100%, 0~									
			5/10Kohm fu	ll scale, user	selectable. Ad	curacy and I	inearity: +/-0.			-	
Dutput voltage monitor		0~5V or 0~1	5/10Kohm fu 0V, user sele	ll scale, user ctable. Accu	selectable. Ao racy: +/-0.5%	curacy and I of rated Vou	inearity: +/-0. ıt.				
Output voltage monitor Dutput current monitor (*14)		0~5V or 0~1	5/10Kohm fu 0V, user sele	ll scale, user	selectable. Ao racy: +/-0.5%	curacy and I of rated Vou	inearity: +/-0. ıt.				
Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OU		0~5V or 0~1 0~5V or 0~1	5/10Kohm fu 0V, user sele 0V, user sele	ll scale, user ctable. Accu ctable. Accur	selectable. Ao racy: +/-0.5% acy: +/-0.5%	curacy and l of rated Vou of rated lout.	inearity: +/-0. It.	5% of rated I	out.		
Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal		0~5V or 0~1 0~5V or 0~1 Power supp	5/10Kohm fu 0V, user sele 0V, user selec ly output mo	II scale, user ectable. Accu ctable. Accur enitor. Open o	selectable. Ac racy: +/-0.5% acy: +/-0.5% collector. Out	curacy and l of rated Vou of rated lout. put On: On.	inearity: +/-0. ut. Output Off: C	5% of rated I	out. n Voltage: 30	IV, Maximum	
Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal	 JTPUT)	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co	Il scale, user ectable. Accu ctable. Accur enitor. Open e llector. CC m	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r	curacy and l of rated Vou of rated lout. put On: On. node: Off. M	output Off: C aximum Volta	5% of rated I Off. Maximun age: 30V, Ma	out. n Voltage: 30 ximum Sink (Current: 10m	Α.
Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co ble analog p	Il scale, user ectable. Accu ctable. Accur onitor. Open o llector. CC m rogramming	collector. Our control by e	curacy and l of rated Vou of rated lout. put On: On. node: Off. M. lectrical sign	Output Off: C aximum Volta	5% of rated I Off. Maximun age: 30V, Ma tact. Remote	out. n Voltage: 30 ximum Sink (2: 0~0.6V or s	Current: 10m short. Local: 2	A. 2~30V or op
Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OF Power supply OK #1 signal -V/CC signal -OCAL/REMOTE Analog control -OCAL/REMOTE Analog signal	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog prog	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co ble analog p rramming co	Il scale, user i ectable. Accu ctable. Accur initor. Open illector. CC m rogramming ntrol monito	selectable. Ac racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope	curacy and l of rated Vou of rated lout. put On: On. node: Off. M. lectrical sigr n collector. F	inearity: +/-0. ut. Output Off: C aximum Volta ial or dry con Remote: On. L	5% of rated l Off. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma	out. n Voltage: 30 ximum Sink (e: 0~0.6V or s aximum Volt	Current: 10m short. Local: 2 age: 30V, Ma	A. 2~30V or op ximum Sink
hutput voltage monitor iutput current monitor (*14) INALS AND CONTROLS (ISOLATED FROM THE O iower supply OK #1 signal V/CC signal .OCAL/REMOTE Analog control .OCAL/REMOTE Analog signal INABLE/DISABLE signal	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog prog	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co ble analog p rramming co	Il scale, user i ectable. Accu ctable. Accur initor. Open illector. CC m rogramming ntrol monito	selectable. Ac racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope	curacy and l of rated Vou of rated lout. put On: On. node: Off. M. lectrical sigr n collector. F	inearity: +/-0. ut. Output Off: C aximum Volta ial or dry con Remote: On. L	5% of rated l Off. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma	out. n Voltage: 30 ximum Sink (e: 0~0.6V or s aximum Volt	Current: 10m short. Local: 2	A. 2~30V or op ximum Sink
hutput voltage monitor iutput current monitor (*14) INALS AND CONTROLS (ISOLATED FROM THE OU iower supply OK #1 signal .V/CC signal .OCAL/REMOTE Analog control .OCAL/REMOTE Analog signal ENABLE/DISABLE signal NTERLOCK (ILC) control	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co ble analog p rramming co ble PS outpu	Il scale, user : ectable. Accur ctable. Accur mitor. Open flector. CC m rogramming ntrol monito it by electrici	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope al signal or d	curacy and l of rated Vou of rated lout. put On: On. node: Off. M lectrical sigr n collector. F ry contact. 0	inearity: +/-0. ut. Output Off: C aximum Volta ial or dry con Remote: On. L	5% of rated l off. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma t, 2~30V or 6	out. n Voltage: 30 ximum Sink (e: 0~0.6V or s aximum Volt oppen. User so	Current: 10m short. Local: 2 age: 30V, Ma electable log	A. 2~30V or op ximum Sink
butput voltage monitor putput current monitor (*14) INALS AND CONTROLS (ISOLATED FROM THE O Power supply OK #1 signal UV/CC signal COCAL/REMOTE Analog control COCAL/REMOTE Analog signal ENABLE/DISABLE signal NTERLOCK (ILC) control	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa	5/10Kohm fu OV, user sele OV, user sele Iv output mo tor. Open co ble analog p ramming co ble PS outpu ble PS outpu	Il scale, user : ectable. Accur ctable. Accur mitor. Open flector. CC m rogramming ntrol monito it by electrica it by electrica	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope al signal or d al signal or d	curacy and l of rated Vou of rated lout. put On: On. node: Off. M lectrical sign n collector. F ry contact. 0 y contact. Re	inearity: +/-0. It. Output Off: C aximum Volta ial or dry con Remote: On. I ~0.6V or shor emote: 0~0.6	5% of rated l off. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma t, 2~30V or o V or short. Lo	out. n Voltage: 30 ximum Sink (2: 0~0.6V or si aximum Volt open. User so ocal: 2~30V of	Current: 10m short. Local: 2 age: 30V, Ma electable log	A. 2~30V or op ximum Sink ic.
utput voltage monitor utput current monitor (*14) NALS AND CONTROLS (ISOLATED FROM THE OU ower supply OK #1 signal V/CC signal OCAL/REMOTE Analog control OCAL/REMOTE Analog signal NABLE/DISABLE signal VTERLOCK (ILC) control rogrammed signals	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog pro <u>c</u> Enable/Disa Enable/Disa Two open d	5/10Kohm fu OV, user sele OV, user sele ly output mo tor. Open co ble analog p rramming co ble PS outpu ble PS outpu rain program	Il scale, user : ctable. Accu ctable. Accur onitor. Open illector. CC m rogramming ntrol monito it by electrica it by electrica mable signa	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope al signal or d al signal or d Is. Maximum	curacy and l of rated Voto of rated lout. put On: On. node: Off. M. lectrical sign n collector. F ry contact. 0 y contact. R voltage 25V	inearity: +/-0. It. Output Off: C aximum Volta al or dry con Remote: On. I ~0.6V or shou- emote: 0~0.6 , Maximum s	5% of rated I Dff. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma t, 2~30V or e V or short. Li ink current 1	out. n Voltage: 30 ximum Sink (e: 0~0.6V or s aximum Volt open. User so ocal: 2~30V (00mA (Shun	Current: 10m short. Local: 2 age: 30V, Ma electable log or open. ated by 27V ze	A. 2~30V or op ximum Sink ic. ener)
utput voltage monitor utput current monitor (*14) INALS AND CONTROLS (ISOLATED FROM THE O ower supply OK #1 signal .V/CC signal OCAL/REMOTE Analog control OCAL/REMOTE Analog signal INABLE/DISABLE signal NTERLOCK (ILC) control trogrammed signals RIGGER IN / TRIGGER OUT signals	 JTPUT) 	0~5V or 0~1 0~5V or 0~1 Power supp CV/CC Moni Enable/Disa analog proc Enable/Disa Enable/Disa Two open d Maximum lo	5/10Kohm fu 0V, user sele 0V, user sele ly output mo tor. Open co ble analog p rramming co ble PS outpu ble PS outpu rain program ow level inpu	Il scale, user : ctable. Accu ctable. Accur nitor. Open illector. CC m rogramming ntrol monito it by electric it by electric mable signa it voltage = 0	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope al signal or d al signal or d ls. Maximum .8V,Minimur	curacy and l of rated Voto of rated lout. put On: On. node: Off. M. lectrical sign n collector. F ry contact. 0 y contact. R voltage 25V n high level i	Output Off: C aximum Volta al or dry con Remote: On. I ~0.6V or shor emote: 0~0.6 , Maximum s nput voltage	5% of rated I Dff. Maximun age: 30V, Ma tact. Remote .ocal: Off. Ma t, 2~30V or a V or short. Li ink current 1 e = 2.5V, Max	out. n Voltage: 30 ximum Sink (e: 0~0.6V or s aximum Volt open. User so ocal: 2~30V (00mA (Shun imum high I	Current: 10m short. Local: 2 age: 30V, Ma electable log or open.	A. 2~30V or op ximum Sink ic. ener)
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lout resistor programming (*14) Output voltage monitor Output voltage monitor (*14) GNALS AND CONTROLS (ISOLATED FROM THE OI Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals DAISY_UN/SO control signal 0. DAISY_OUT/PS_OK #2 signal JUCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Siew rate control Siew rate control Siew rate control Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, 5232/485, Optional IEEE (*16) Interfaces) Vout programming resolution lout programming resolution Vout programming resolution Vout readback accuracy (*14) Vout readback accuracy (*14) Vout readback accuracy (*14)	 	0~5V or 0~1 0~5V or 0~1 0~5V or 0~1 Enable/Disa Enable/Disa Enable/Disa Enable/Disa Enable/Disa Two open d Maximum le edge trigge By electrical 4~5V=OK,0 Possible. Up Possible. Up Possible. Up Possible. Tw Power supp Enulates se Programma communica Profiles of u 0.05% of rat 0.002% of rat 0.02% of rat	5/10Kohm fu 0V, user sele 1V, user	Il scale, user si ctable. Accur ctable. Accur ctable. Accur intor. Open of llector. CC m rogramming ntrol monito it by electricit in by electricit in by electricit in by electricit in to y electricit in mable signa it voltage = C 	selectable. Ad racy: +/-0.5% acy: +/-0.5% collector. Out ode: On. CV r control by e r signal. Ope al signal or d l signal or d l signal or d ls. Maximum 0.8V,Minimur f=1us Maxim r dry contact f=1us Maxim f=1us Maxi	curacy and I of rated Vou of rated Vou of rated Vou of rated Iout.	inearity: +/-0. It. Output Off: C aximum Volta al or dry con Remote: On. I ~0.6V or shore emote: 0~0.6 , Maximum s nput voltage ay between 2 b instruction e their turn-c ng via the co ramming via ming range: (80	5% of rated 0ff. Maximun age: 30V, Ma tatc. Remote vor short. Li ink current 1 = 2.5V, Max Pulses 1ms manual. In and turn- mmunicatio the commu 0.0001~999.9 Immand via 100	Notage: 30 Notage: 30	Current: 10m short. Local: : age: 30V, Ma: electable log or open. ited by 27V zi evel input = efront pane ts or the fron or A/mSec. Pro- nication.ports 300	A. 2~30V or op kimum Sink ic. ener) 5V positive 5V positive 1. t panel. ogramming c or by the f 600 rrent
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GENESYS[™] 1.7kW SERIES SPECIFICATIONS

DUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
Rated output current (*2)	Α	170	85	56	42	28	21	17	11.2	5.6	2.8
Rated output power	W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
IPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
Input voltage/freg. (*3)		85~265Vac	continuous,	47~63Hz Sin	ale Phase						
Maximum Input current at 100% load (100/200)	Α	20/10	continuous,	17 00112/011	giernase						
Power Factor (Typ)			/ac 0.98 @ 20	0Vac. rated o	utput power.						
Efficiency at 100 Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
Inrush current (*5)	A	Less than 50	A								
ONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
Max. Line regulation (*6)				1	40	00	00	100	150	500	000
Max. Load regulation (*7)			ted output vo								
Ripple and noise (p-p, 20MHz) (*8)	mV		ed output vo			10				100	= = =
Ripple r.m.s. 5Hz~1MHz (*8)	mV	50	50	50	60	60	75	75	75	120	500
Temperature coefficient		6	6	6	7	7	10	12	8	20	100
Femperature stability			om rated out								
Warm-up drift			ted Vout over						nd & temp.		
Remote sense compensation/wire (*10)			01% of rated				÷.				
	V	2	2	5	5	5	5	5	5	5	5
Up-prog. Response time (*11) Down prog.response time:	mS	20	20	20	20	20	20	25	50	100	100
Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
Transient response time	mS	Time for ou	tput voltage	to recover wi	thin 0.5% of	ts rated outp	out for a load	change 10~	90% of rated	output curre	ent. Output
		10~100%, L	ocal sense. L	ess than 1mS	, for models	up to and ind	cluding 100V	2mS, for mo	dels above 1	00V.	
Start up delay	Sec	Less than 6				·	-				
Hold-up time	mS				16	ms typical, ra	ated output p	ower			
INSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
Max. Line regulation (*6)			ed output cu								
Aax. Load regulation (*9)			ted output cu								
Ripple rm.s.@ratedficient('5) emperative coefficient	PPM?		≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
	PPIW/*0		100PPM/oC					-	310	30	
emperature stability			70PPM/oC fr		· ·			·			
		1300-0000				-					
wann-up unit		0.010% of rat	tod lout over	Ohre intonya	following 2	0 minutos w	arm up Cond	tant line loa	d & tompora		
wann-up unit			ted lout over							iture.	
wann-up unit										iture.	
Warm-up drift			ted lout over nodel: Less th : Less than +/							iture.	
·	ATED F	10V~100V r 150V~600V	nodel: Less tl : Less than +/							iture.	
ALOG PROGRAMMING AND MONITORING (ISOL	ATED F	10V~100V r 150V~600V	nodel: Less th : Less than +/ JTPUT)	han +/-0.25% /-0.15% of rai	of rated out ted output cu	put current o Irrent over 3	over 30 minu 0 minutes fo	tes following lowing powe	power on. er on.	iture.	
ALOG PROGRAMMING AND MONITORING (ISOL out voltage programming	ATED F	10V~100V r 150V~600V ROM THE OI 0~100%, 0~	nodel: Less th : Less than +/ UTPUT) /5V or 0~10V,	han +/-0.25% /-0.15% of rat , user selecta	of rated out ted output cu ble. Accuracy	put current o irrent over 3 and linearit	over 30 minu 0 minutes fo y: +/-0.15% c	tes following lowing powe	power on. er on.	iture.	
IALOG PROGRAMMING AND MONITORING (ISOL fout voltage programming put voltage programming (*14)		10V~100V r 150V~600V ROM THE OU 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ JTPUT) /5V or 0~10V, /5V or 0~10V,	han +/-0.25% /-0.15% of rat , user selecta user selectat	of rated out ted output co ble. Accuracy ble. Accuracy	put current o irrent over 3 and linearit and linearity	over 30 minu 0 minutes fol y: +/-0.15% c : +/-0.4% of r	tes following lowing powe f rated Vout. ated lout.	i power on. er on.	iture.	
IALOG PROGRAMMING AND MONITORING (ISOL 'out voltage programming out voltage programming (*14) 'out resistor programming		10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ J TPUT) ·5V or 0~10V, ·5V or 0~10V, ·5/10Kohm fu	han +/-0.25% / -0.15% of rai , user selecta user selectat ull scale, user	ble. Accuracy ble. Accuracy selectable. <i>A</i>	put current o rrent over 3 and linearity and linearity accuracy and	over 30 minu 0 minutes fol y: +/-0.15% c : +/-0.4% of r I linearity: +/-	tes following lowing power f rated Vout. ated lout. 0.5% of rate	l power on. er on. d Vout.	iture.	
IALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming out resistor programming (*14)	 	10V~100V r 150V~600V ROM THE OU 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ JTPUT) ·5V or 0~10V, ·5V or 0~10V, ·5/10Kohm fu ·5/10Kohm fu	han +/-0.25% /-0.15% of rat , user selecta user selectat ull scale, user ill scale, user	ble. Accuracy ble. Accuracy selectable. A selectable. A	put current over 3 and linearity curacy and linearity ccuracy and linearity	over 30 minu 0 minutes fol :: +/-0.15% cr :: +/-0.4% of r. I linearity: +/-0 inearity: +/-0	tes following lowing power f rated Vout. ated lout. 0.5% of rate	l power on. er on. d Vout.	iture.	
IALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming out resistor programming (*14) Dutput voltage monitor	 	10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ JTPUT) :5V or 0~10V, :5V or 0~10V, :5/10Kohm fu :5/10Kohm fu 10V, user sele	han +/-0.25% (-0.15% of rai , user selecta user selectat ull scale, user ectable. Accu	ble. Accuracy ble. Accuracy ble. Accuracy selectable. A selectable. A racy: +/-0.5%	out current of irrent over 3 and linearity and linearity accuracy and l ccuracy and l of rated Voo	over 30 minu 0 minutes fol y: +/-0.15% cc : +/-0.4% of r. I linearity: +/- inearity: +/-0 ut	tes following lowing power f rated Vout. ated lout. 0.5% of rate	l power on. er on. d Vout.	iture.	
IALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming out resistor programming (*14) Dutput voltage monitor Dutput current monitor (*14)	 	10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ JTPUT) ·5V or 0~10V, ·5V or 0~10V, ·5/10Kohm fu ·5/10Kohm fu	han +/-0.25% (-0.15% of rai , user selecta user selectat ull scale, user ectable. Accu	ble. Accuracy ble. Accuracy ble. Accuracy selectable. A selectable. A racy: +/-0.5%	out current of irrent over 3 and linearity and linearity accuracy and l ccuracy and l of rated Voo	over 30 minu 0 minutes fol y: +/-0.15% cc : +/-0.4% of r. I linearity: +/- inearity: +/-0 ut	tes following lowing power f rated Vout. ated lout. 0.5% of rate	l power on. er on. d Vout.	iture.	
VALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming out resistor programming (*14) Dutput voltage monitor Dutput current monitor (*14) GNALS AND CONTROLS (ISOLATED FROM THE OU	 	10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	nodel: Less th : Less than +/ JTPUT) :5V or 0~10V, :5V or 0~10V, :5/10Kohm fu :5/10Kohm fu 10V, user sele	han +/-0.25% (-0.15% of rai , user selecta user selectat ull scale, user ectable. Accu	ble. Accuracy ble. Accuracy ble. Accuracy selectable. A selectable. A racy: +/-0.5%	out current of irrent over 3 and linearity and linearity accuracy and l ccuracy and l of rated Voo	over 30 minu 0 minutes fol y: +/-0.15% cc : +/-0.4% of r. I linearity: +/- inearity: +/-0 ut	tes following lowing power f rated Vout. ated lout. 0.5% of rate	l power on. er on. d Vout.	iture.	
VALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming out resistor programming (*14) Dutput voltage monitor Dutput current monitor (*14) GNALS AND CONTROLS (ISOLATED FROM THE OU	 	10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~1 0~5V or 0~1	nodel: Less th : Less than +/ JTPUT) :5V or 0~10V, :5V or 0~10V, :5/10Kohm fu :5/10Kohm fu 10V, user sele	han +/-0.25% / 0.15% of rat , user selectat user selectat ull scale, user ectable. Accur ctable. Accur	ble. Accuracy ble. Accuracy selectable. A selectable. A racy: +/-0.5 of	put current or irrent over 3 r and linearity and linearity accuracy and l corracy and l of rated Vou rated lout.%	over 30 minu 0 minutes fol y: +/-0.15% c : +/-0.4% of r. I linearity: +/- inearity: +/-0 ut	tes following lowing power of rated Vout. ated lout. 0.5% of rated 5% of rated l	d Vout.		Sink Currer
IALOG PROGRAMMING AND MONITORING (ISOL /out voltage programming out voltage programming (*14) /out resistor programming (*14) Out resistor programming (*14) Output voltage monitor Dutput voltage monitor Dutput current monitor (*14) SNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal CV/CC signal	 JTPUT)	10V~100V r 150V~600V ROM THE OI 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~ 0~5V or 0~ 0~5V or 0~ Power supp	nodel: Less th : Less than +/ JJTPUT) :5V or 0~10V, :5V or 0~10V, :5/10Kohm fu 10V, user sele 10V, user sele	han +/-0.25% /-0.15% of rai user selectat user selectat ull scale, user sectable. Accur ctable. Accur ponitor. Open	of rated out ted output co ble. Accuracy selectable. A selectable. A racy: +/-0.5 of collector. Out	v and linearity and linearity accuracy and couracy and linearity accuracy and linearity of rated Vou rated lout.%	over 30 minu 0 minutes fol y: +/-0.15% c : +/-0.4% of r I linearity: +/-0 ut . Output Off: C	tes following lowing power of rated Vout. ated lout. 0.5% of rated 5% of rated l Dff. Maximum	d Vout. out.	V, Maximum	
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GENESYS[™] 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20		30	40	60	80	100		150	300	600	
1.Foldback protection														Limit to CV n el or by comn	
2.Over-voltage protection (OVP)			Output shu	ıt-down. F	Reset by	AC inpu	ut recycle in	autostart mo	de, by OUT	PUT button,	by rear	panel o	or by comm	unication.	
Over -voltage programming ra		V	0.5~12			2~36	2~44.1	5~66.15	5~88.2	5~110.2	5 5~	165.37	5~330.75	5~661.5	
 Over-voltage programming ad 			+/-1% of ra	ted outpu	ıt voltag	je									
5.Output under voltage limit (UV	′L)								analog prog	ramming. Pr	reset by	y front p	panel or com	nmunication p	oort.
6.Over temperature protection							ery by autost	art mode.							
7. Output under voltage limit (UV	/L)		Prevents a	djustment	of Vout	t below	limit.								
8. Output under voltage protect	ion (UVP)			-				put turns Of ear panel or	-	-	onditio	on. Rese	t by AC inpu	it recycle in a	utostart
FRONT PANEL															
1.Control functions			Multiple or	otions with	h 2 Enco	oders									
		-	Vout/lout/	Power Lim	nit manu	ual adjus	st								
			OVP/UVL/U												
		-						OCL, ENA, ILO							
							on of LAN,IEE	E,RS232,RS4	85,USB or O	ptional com	munica	ation in	terface.		
		-	Output ON												
								ate, Address,							
		-						sistive progra			(progr	amming	9		
								/Current Moi		10V.					
2.Display		-						oltage +/-1 cou rent +/-1 cou							
2.015pidy								CATION, PRO				TEM C			
3.Front Panel Buttons Indication	c													1.11/1 0	
5.FIGHT Fallel Buttons indication	5	-									Autost	art, Safe	etstart, Foldr	ack V/I, Remo	ote
4. Front Panel Display Indication	S		(communic	ation), RS	JUSB/LA	AN/IEEE	communica	tion, Trigger,	Load/Store	Cell.					
ENVIRONMENTAL CONDITIONS															
1.Operating temperature			0~50°C, 10	0% load.											
2.Storage temperature			-30~85°C												
3.Operating humidity		- %	20~90% RI	l (no conc	lensatio	n)									
· · · ·		%	10~95% RI												
4.Storage humidity								tin = 20/ /100			0	200	Our Name		04+ (1 2000
5.Altitude		-	Operating:	1000011 (3	5000111),	, output	current der	ating 2%/100				0ve 200		erating: 4000	011 (12000
MECHANICAL															
1.Cooling			Forced air	cooling by	/ interna	al fans. A	ir flow direc	tion: from Fr	ont panel to	power supr	olv rear				
2.Weight		kg	Less than 5								.,				
3.Dimensions (WxHxD)		-		5											
4.Vibration		mm						sbars cover), u sbars cover)	(Defer to O	utling drawing	~				
						-				utime urdwir	iy).				
5.Shock								ion Annex C	- 2.1.3.1						
SAFETY/EMC		1	Less than 2	0G, half si	ne, 11m	iSec. Un	it is unpacke	d.							
1.Applicable standards:	afety G1kW/G1.7kW		11161010 1	(5422.21	No 6101	0-1 150	51010-1, EN6	1010-1							
T.T. Internace classification															
G	1kW/1.7kW	-	Vout≤50V	Models: Ou	utput, J1	I, J2, J3,	J4, J5, J6, J7,	J8 (sense) & J	9 (communi	cation optio	ns) are	Non Ha	zardous.		
			60≤Vout≤6	600V Mode	els: Outp	put & J8	(sense) are l	azardous, 11	, 12, 13, 14, 1	5, J6, J7 & J9	(comm	nunicati	on options)	are Non Haza	rdous.
			Input - Gr	ound: 28	35VDC	1min.	a di ju (sen:	, , , , , , , , , , , , , , , , , , , 	, j , j, j, j	, a j . (com	manit	auont	-puor is). 4 2	are Non Haza 42VDC 1mir	''
			60V≤Vout	≤100V M	odels: I	Input –	Output & J	3 (sense), J1	, J2, J3, J4, J	5, J6, J7 & J	9 (com	munic	ation optio	ns): 4242VD	C 1min,
		-	Output &	J8 (sense	e) - J1, J2	2, j3, <u>j4,</u>	J5, J6, J7 &	J9 (commur	ication op	tions): 850	VDC 1	min.			
1.2 Withstand voltage G	1kW/1.7kW		Output & 100V <vou Output &</vou 	J8 (sense it≤600V N I8 (sense	e) - Grou Models: e) - 11, 12	und: 15 : Input 2. I3. I4.	00VDC 1m - Output & 15, 16, 17 &	n, Input - G J8 (sense), J I9 (commur	round: 283 1, J2, J3, J4, nication op	35VDC 1mir J5, J6, J7 ar tions): 127	n. nd J9 (ø 5VDC 1	commu 1 min.	inication o	ns): 4242VD otions): 4242	2VDC 1mi
			Output & Input - Gr	J8 (sense ound: 28) - Grou 35VDC	und: 25 1min.	00VDC 1m	n.	···	-,	-				
1.3 Insulation resistance			100Mohm	at 25% 70	0%RH C	Dutnut t	o Ground 50	OVDC							
2.Conducted emmision								table H.1 , FG	C Part 15 A						
z.conducted emmision										,					
2.0.1															
3.Radiated emission 4. EMC compliance	MC (*4)						ent, Annex H ial environm	table H.3 an	d H4, FCC Pa	art 15-A, VCC	_I-A				

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C NOTES: *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage. *2: Minimum current is guaranteed to maximum 0.2% of rated output current. *3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz). *4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m. *5: Not including EMI filter inrush current, less than 0.2mSec. *6: 85~132Vac or 170~265Vac. Constant load. *7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense. *8: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe. *9: For load voltage change, equal to the unit voltage rating, constant input voltage. *10: The maximum voltage on the power supply terminals must not exceed the rated voltage. *11: From 90% to 10% of Rated Output Voltage. *12: From 90% to 10% of Rated Output Voltage. *13: Grom 90% to 10% of Rated Output Voltage. *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift. *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift. *15: Measured at the sensing point.



GENESYS[™] 2.7kW SERIES SPECIFICATIONS

DUTPUT RATING	G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
I.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
Rated output current (*2). Rated output power	A	265 2650	135 2700	90 2700	68 2720	45 2700	34 2720	27 2700	18 2700	9 2700	4.5
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
					47~63Hz (Co						
Input voltage/freg. 3 phase, 3 wire + Ground (*4)					17~63Hz (Cov						
inipat forage, nedi 5 priase, 5 tine i eloana (i,		3-Phase 380/400/41	480V 5/440/460/48	models: 80Vac)	342~528Va	2, 47~6	3Hz (Cov	vers			
3-Phase, 200V mode	Ic.			70~265Vac,	47 ~63Hz (Co	vers 200/20	3/230/240Va	c)			
. Maximum Input current at 3-Phase, 400V mode	-	10A @ 200V									
00% load 3-Phase, 480V mode		5.5A @ 380V									
1-Phase, 200V mode		5.5A @ 380V									
		16.5A @ 200	Vac	0/2001/26 **	tod output	nouver Fer	1 Dhasay 0.0	0 @			
Power Factor (Typ)		200Vac, Pate	d output po	Wer.	ted_output_	power. For	1-Pnase: 0.9	9_@			
Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
Inrush current (*6)	Α	Less than 50	A								
ONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*7)			ed output vo		40	00	00	100	150	500	000
2.Max. Load regulation (*8)			ed output vo								
Ripple and noise (p-p, 20MHz) (*9)	mV	75			75	00	80	100	120	200	400
I.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	75 10	75	12	80	15	100 15	120 20	200 60	480
Temperature coefficient		-		-	1	-	1	15	20	00	100
5.Temperature stability	PPM/°C	50PPM/°C fro			following 30 al following 3			octant line 1-	ad & tomm		
'. Warm-up-drift									au a temp.		
B.Remote sense compensation/wire (*10)	 V				age+2mV ov			1	F	F	F
Up-prog. Response time (*11) 10.Down-prog.response time:	-	2	2	5	5	5	5	5	5	5	5
	mS	30	30	30	30	50	50	50	50	50	100
Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
1.Transient response time	mS						•	5		•	rent. Output
	6			ess than 1m	S, for models	up to and ir	cluding 100	V. 2mS, for m	odels above	2 100V.	
2.Start up delay	Sec	Less than 6							1		
ONSTANT CURRENT MODE	v	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*7)			ed output cu								
.Max. Load regulation (*13)			ed output cu						1		
Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
Temperature coefficient	PPINI/*(10V~100V									
5.Temperature stability 7. Warm-up drift					tput current						
					al following 3						
		150V~100V n	Less than +	nan +/-0.25% / -0.15% of ra	6 of rated ou ted output c	urrent over	over 30 min 30 minutes fo	utes followin Sllowing pov	g power on. ver on.		
NALOG PROGRAMMING AND MONITORING (ISO	LATED I	ROM THE O	UTPUT)								
.Vout voltage programming		1		, user selecta	ble. Accurac	y and linear	ty: +/-0.15%	of rated Vou	t.		
lout voltage programming (*15)					ble. Accuracy						
.Vout resistor programming		0~100%, 0~	5/10Kohm fi	ull scale, use	r selectable.	Accuracy an	d linearity: +	/-0.5% of rat	ed Vout.		
I.lout resistor programming (*15)		0~100%, 0~	5/10Kohm fu	Ill scale, user	selectable. A	ccuracy and	linearity: +/-	0.5% of rated	lout.		
5.Output voltage monitor		0~5V or 0~1	0V. user sele	ectable. Accu	Iracut 1 / 0.50	6					
					Hacy. T/-0.37						
		0~5V or 0~1			racy: +/-0.5%						
.Output current monitor (*15)		1									
Output current monitor (*15)	DUTPUT)	0V, user sele	ctable. Accu	racy: +/-0.5%		Output Off	Off Mavim	m Voltage: 1	OV Maximum	m Sink Curren
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C . Power supply OK #1 signal	UTPUT) Power supp	0V, user sele	ctable. Accu	racy: +/-0.5% collector. Ou	tput On: On					m Sink Currer
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C . Power supply OK #1 signal . CV/CC signal	OUTPUT)) Power supp CV/CC Moni	0V, user sele ly output mo tor. Open co	onitor. Open	racy: +/-0.5% collector. Ou node: On. CV	tput On: On mode: Off. N	1aximum Vol	tage: 30V, M	aximum Sinl	k Current: 10	mA.
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control	DUTPUT)) Power supp CV/CC Moni Enable/Disa	0V, user sele ly output mo tor. Open co ble analog p	onitor. Open ellector. CC m	collector. Ou node: On. CV g control by	tput On: On mode: Off. N electrical sig	laximum Vol nal or dry co	tage: 30V, M ntact. Remo	aximum Sinl te: 0~0.6V o	k Current: 10 r short. Local	mA. l: 2~30V or op
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal	DUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog	0V, user sele ly output mo tor. Open co ible analog p gramming co	onitor. Open onitor. Open offictor. CC m orogrammin ontrol monito	collector. Ou node: On. CV g control by or signal. Ope	tput On: On mode: Off. N electrical sig en collector.	laximum Vol nal or dry co Remote: On.	tage: 30V, M ntact. Remo Local: Off. N	aximum Sinl te: 0~0.6V o laximum Vo	k Current: 10 r short. Local Itage: 30V, M	mA. I: 2~30V or op Iaximum Sink
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal	OUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu	onitor. Open onitor. Open orogrammin ontrol monito ut by electric	collector. Ou node: On. CV g control by or signal. Ope cal signal or c	tput On: On mode: Off. N electrical sig en collector. Iry contact.	Naximum Vol nal or dry co Remote: On. D~0.6V or sho	tage: 30V, M intact. Remo Local: Off. N ort, 2~30V or	aximum Sinl te: 0~0.6V o laximum Vo ^r open. User	k Current: 10 r short. Local Itage: 30V, M selectable lo	mA. I: 2~30V or op Iaximum Sink
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control	OUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu	ctable. Accu onitor. Open illector. CC m programming ontrol monito ut by electric ut by electric	collector. Ou node: On. CV g control by or signal. Ope cal signal or c al signal or d	tput On: On mode: Off. N electrical sig en collector. Iry contact. I ry contact. I	Naximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0.	tage: 30V, M intact. Remo Local: Off. N ort, 2~30V or 6V or short. I	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open.	mA. : 2~30V or op laximum Sink ogic.
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals	OUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu rain program	ctable. Accu ponitor. Open illector. CC m programming ontrol monito ut by electric ut by electric nmable sign.	collector. Ou node: On. CV g control by or signal. Ope cal signal or c al signal or d als. Maximun	tput On: On mode: Off. N electrical sig en collector. Iry contact. I ry contact. S n voltage 25	Maximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0. V, Maximum	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals	OUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum lo	OV, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu rain program ow level inpu	ctable. Accu ponitor. Open illector. CC m programming ontrol monito ut by electric ut by electric nmable sign. ut voltage =	collector. Ou ode: On. CV g control by o or signal. Ope cal signal or c al signal or d als. Maximun 0.8V,Minimu	tput On: On mode: Off. N electrical sig en collector. Iry contact. f ry contact. f n voltage 25 m high level	Maximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0. V, Maximum input voltag	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
Autput current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals	DUTPUT)	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum lo	OV, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu rain program ow level inpu	ctable. Accu ponitor. Open illector. CC m programming ontrol monito ut by electric ut by electric nmable sign. ut voltage =	collector. Ou node: On. CV g control by or signal. Ope cal signal or c al signal or d als. Maximun	tput On: On mode: Off. N electrical sig en collector. Iry contact. f ry contact. f n voltage 25 m high level	Maximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0. V, Maximum input voltag	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic.
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals . DAISY_IN/SO control signal	DUTPUT) 	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum lo edge trigge By electrical	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu rain program pw level inpu r: tw=10us m Voltage: 0~0	ctable. Accu pnitor. Open illector. CC m programmin ntrol monite ut by electric nmable sign. ut voltage = ninimum. Tr, 0.6V/2~30V	collector. Ou node: On. CV g control by or rsignal. Ope cal signal or d als. Maximun 0.8V,Minimu tf=Tus Maxir or dry contac	tput On: On mode: Off. N electrical sig en collector. Iry contact. I n voltage 25 m high level num, Min de	Maximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0. V, Maximum input voltag	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal	DUTPUT)	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum lo edge trigge By electrical	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu rain program ow level inpu r: tw=10us m	ctable. Accu pnitor. Open illector. CC m programmin ntrol monite ut by electric nmable sign. ut voltage = ninimum. Tr, 0.6V/2~30V	collector. Ou node: On. CV g control by or rsignal. Ope cal signal or d als. Maximun 0.8V,Minimu tf=Tus Maxir or dry contac	tput On: On mode: Off. N electrical sig en collector. Iry contact. I n voltage 25 m high level num, Min de	Maximum Vol nal or dry co Remote: On. D~0.6V or sho Remote: 0~0. V, Maximum input voltag	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog signal LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES	DUTPUT)	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum lc edge trigge By electrical 4~5V=OK, 0	OV, user sele	ctable. Accu pnitor. Open illector. CC m programming introl monitri ut by electric nmable sign. ut voltage = ininimum. Tr; 0.6V/2~30V mpedance)=	collector. Ou ode: On. CV g control by or signal. Ope al signal or c al signal or c al signal or d als. Maximun 0.8V,Minimu If=1us Maxir or dry contac Fail	tput On: On mode: Off. N electrical sig n collector. Iry contact. I n voltage 25 m high level num, Min de t.	Maximum Vol nal or dry co Remote: On. 0~0.6V or she Remote: 0~0. V, Maximum input voltag lay between	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma 2 pulses 1m	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals .TRIGGER IN / TRIGGER OUT signals .DAISY_IN/SO control signal 0.DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES .Parallel operation	UTPUT)	Power supp CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum k edge trigge By electrical 4~5V=OK, 0 Possible, Up	0V, user sele ly output mo tor. Open co ble analog p gramming co ble PS outpu ble PS outpu rain program pow level inpu r: tw=10us m Voltage: 0≂t V (500ohm ir o to 4 identic	ctable. Accu ponitor. Open illector. CC m orogrammin ontrol monitu ti by electric ti by electric nmable sign. it voltage = ninimum. Tr; 0:6V/2~30V mpedance)= al units in M	collector. Ou node: On. CV g control by or signal. Ope al signal or c al signal or c al signal or d als. Maximun 0.8V,Minimu If=1us Maximor or dry contace Fail aster/Slave n	tput On: On mode: Off. N electrical sig en collector. Iry contact. I n voltage 25 m high level num, Min de t.	Maximum Vol nal or dry co Remote: On. 0~0.6V or she Remote: 0~0. V, Maximum input voltag lay between	tage: 30V, M intact. Remo Local: Off. M ort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma 2 pulses 1m	aximum Sinl te: 0~0.6V o laximum Vo open. User Local: 2~30V 100mA (Shu ximum high	k Current: 10 r short. Local Itage: 30V, M selectable lo / or open. Inted by 27V	mA. l: 2~30V or op laximum Sink ogic. zener)
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Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE C Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals DAISY IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Series operation Series operation Series operation Series control Output resistance control Slew rate control Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN, S232/485, Optional IEEE(*19)(*20) Interfaces) Vout programming accuracy (*16)	 	Power supp CV/CC Moni Enable/Disa Enable/Disa Enable/Disa Two open d Maximum le edge trigge By electrical 4~5V=OK,0 Possible. Up Possible. Up Possible. Tw Power supp Limits the o Emulates se Programma communica Profiles of u 10 0.05% of rat 0.1% of actu	VV, user sele	ctable. Accu onitor. Open illector. CC m orogrammin introl monitik at by electric thy electric t	collector. Ou oode: On. CV or signal. Opv or signal. Opv al signal or c al signal or c al signal or d als. Maximum 0.8V,Minimu Df=Tus Maxim or dry contac Fail aster/Slave n o instruction Daisy chain 1 ammed valuv e range: 1~1 out fall slew r anel. red in 4 men	tput On: On mode: Off. N electrical sig no collector. Iry contact. I n voltage 25 m high level num, Min de t. node. Refer 1 manual. o synchroni e. Programn 000mΩ. Pro ate. Program	Maximum Vol nal or dry co Remote: On ~0.6V or she Remote: O~0. V, Maximum input voltag day between input voltag day between co instruction ze their turn- ning via the c gramming via the construction ze their turn- ning via the construction gramming via the construction gramming via the construction day the construction day the construction of the construction of the construction of the construction day the construction of th	tage: 30V, M intact. Remo Local: Off. M fort, 2~30V or 6V or short. I sink current ge = 2.5V, Ma 2 pulses 1m manual. -on and turn communicati a the comm : 0.0001~999	aximum Sinl te: 0~0.6V o laximum Vo open. User open. User ocal: 2~30V 100mA (Shu ximum high s. -off. on ports or 1 unication pc .99 V/mSec.	k Current: 10/ r short. Local ltage: 30V, M selectable lo 7 or open. Inted by 27V level input = the front pan rts or the fro or A/mSec. F	mA. : 2~30V or op laximum Sink ogic. zener) = 5V positive = 5V positive hel. nt panel. Programming rts or by the f
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GENESYS[™] 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-340	20-170	30-117	40-85	60-56	80-42	1()()- <4			
.Rated output voltage(*1)	V	10-340	20-170	30-112 30	40-85	60	80	100-34 100	150-22.5 150	300-11.5 300	600-5.6 600
Rated output current (*2)	A	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
.Rated output power	W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
		3-Phase 200)V models: 1	70~265Vac,	47~63Hz (Cc	vers 200/230)Vac)				
				42~460Vac,4							
.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 380/400/41			342~528Va			ers			
					47~63Hz (Cc	vers 200/208	3/230/240Va	-)			
3-Phase, 200V model		12.5A @ 200		70 205 Vuc,				-)			
Maximum Input current at 3-Phase, 400V model		6.5A @ 380V									
00% load 3-Phase, 480V model		6.5A @ 380V	/ac								
1-Phase, 200V models		21A @ 200Va		-							
Power Factor (Typ)		586,3-Phase		0/380Vac, ra	ted output	power. For	1-Phase: 0.99	0			
Efficiency (Typ) (*5) (*22)	0/		89					90.5	00.5	00.5	00.5
Inrush current (*6)	%	88		89.5	90	90	90.5	90.5	90.5	90.5	90.5
ONSTANT VOLTAGE MODE	A	Less than 50	JA								
Max. Line regulation (*7)	V	10	20	30	40	60	80	100	150	300	600
Max. Load regulation (*8)		0.01% of rat	ed output v	oltage							
Ripple and noise (p-p, 20MHz) (*9)		0.01% of rat	ed output v	oltage +5mV							
Ripple r.m.s. 5Hz~1MHz (*9)	mV	75	75	75	75	80	80	100	120	200	480
Temperature coefficient	mV	8	10	10	12	15	15	15	20	60	100
Temperature coencient Temperature stability	PPM/°C	50PPM/°C fro	om rated out	tput voltage,	following 30	minutes war	rm-up.				
							/arm-up. Con	stant line, lo	oad & temp.		
Warm-up drift Remote consection (wire (*10)							s following p				
Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
Up-prog. Response time (*11) U.Down-prog.response time:	mS	30	30	30	30	50	50	50	50	50	100
Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
											rrent. Output s
1.Transient response time	mS							-			
2 Start up dolau	Sec			ess undri 1m:	, ior models	-up ιο and in	cluding 100	 21113, 101 M	iodels above	- 1009.	
2.Start up delay		Less than 6		20	10	(2)	00	100	150	200	(00)
ONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
Max. Line regulation (*7)		0.05% of rat									
.Max. Load regulation (*13)		0.08% of rat	· ·	1							-
.Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
.Temperature coefficient	PPM/°C	10V~100V	100PPM/oC								
.Temperature stability						t, following 3					
Warm up drift			70PPM/oC f	rom rated ou	tput current	, following 3	0 minutes wa	irm-up.			
Warm-up drift		0.01% of rat	70PPM/oC f ed lout over	rom rated ou 8hrs. interva	tput current I following 3	, following 3 30 minutes w	0 minutes wa /arm-up. Con	irm-up. stant line, lo			
Warm-up drift		0.01% of rat	70PPM/oC f ed lout over	rom rated ou 8hrs. interva	tput current I following 3	, following 3 30 minutes w	0 minutes wa /arm-up. Con	irm-up. stant line, lo			
Warm-up drift		0.01% of rat	70PPM/oC f ed lout over	rom rated ou 8hrs. interva	tput current I following 3	, following 3 30 minutes w	0 minutes wa	irm-up. stant line, lo			
·		0.01% of rat 10V~100V n 150V~600V:	70PPM/oC f ed lout over nodel: Less t : Less than +	rom rated ou 8hrs. interva	tput current I following 3	, following 3 30 minutes w	0 minutes wa /arm-up. Con	irm-up. stant line, lo			
NALOG PROGRAMMING AND MONITORING (ISO	LATED F	0.01% of rat 10V~100V n 150V~600V: ROM THE O	70PPM/oC f red lout over nodel: Less t Less than + UTPUT)	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra	tput current al following i of rated ou ted output c	, following 30 30 minutes w tput current urrent over 3	0 minutes wa /arm-up. Con over 30 minu 80 minutes fo	irm-up. stant line, lc ites followin illowing pov	ig power on ver on.		
NALOG PROGRAMMING AND MONITORING (ISO		0.01% of rat 10V~100V n 150V~600V: ROM THE O 0~100%, 0~	70PPM/oC f red lout over nodel: Less t Less than + UTPUT) 5V or 0~10V	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra /, user selecta	tput current al following 3 6 of rated ou ted output c	, following 30 80 minutes w tput current urrent over 2 y and lineari	0 minutes wa /arm-up. Con over 30 minu 80 minutes fe ty: +/-0.15%	irm-up. stant line, lo ites followin illowing pov	ig power on ver on.		
Warm-up drift NALOG PROGRAMMING AND MONITORING (ISO Vout voltage programming Jout voltage programming (*15) Vout resistor programming		0.01% of rat 10V~100V n 150V~600V ROM THE O 0~100%, 0~ 0~100%, 0~	70PPM/oC f red lout over nodel: Less t Less than + UTPUT) 5V or 0~10V 5V or 0~10V	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra /, user selecta , user selecta	tput current al following : 6 of rated ou ted output c able. Accurac ble. Accuracy	, following 30 80 minutes w tput current urrent over 2 y and linearity and linearity	0 minutes wa /arm-up. Con over 30 minutes for ty: +/-0.15% y: +/-0.4% of	irm-up. stant line, lo ites followin illowing pov of rated Vou rated lout.	ig power on ver on. it.		
NALOG PROGRAMMING AND MONITORING (ISO Vout voltage programming Jout voltage programming (*15) Vout resistor programming		0.01% of rat 10V~100V n 150V~600V: ROM THE O 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	70PPM/oC f eed lout over nodel: Less t Less than + UTPUT) 5V or 0~10V 5V or 0~10V 5V or 0~10V 5/10Kohm f	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra 0.15% of ra 1, user selecta , user selecta ull scale, use	tput current al following 3 of rated ou ted output c ble. Accuracy ble. Accuracy r selectable.	, following 30 30 minutes w tput current urrent over 3 y and linearity Accuracy and	0 minutes wa varm-up. Con over 30 minu 30 minutes fo ty: +/-0.15% y: +/-0.4% of d linearity: +/	rm-up. stant line, lc ites following llowing pov of rated Vou rated lout. -0.5% of rate	ig power on ver on. it. ed Vout.		
NALOG PROGRAMMING AND MONITORING (ISO Vout voltage programming lout voltage programming (*15) Vout resistor programming lout resistor programming (*15)	 	0.01% of rat 10V~100V n 150V~600V ROM THE O 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	70PPM/oC f ed lout over nodel: Less t Less than + UTPUT) 5V or 0~10V 5V or 0~10V 5/10Kohm f 5/10Kohm f	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra (, user selecta , user selecta ull scale, user ull scale, user	tput current al following 3 5 of rated ou ted output c ble. Accuracy ble. Accuracy r selectable. A	, following 30 30 minutes w tput current urrent over y and linearity Accuracy and ccuracy and	0 minutes wa /arm-up. Con over 30 minutes for ty: +/-0.15% y: +/-0.4% of	rm-up. stant line, lc ites following llowing pov of rated Vou rated lout. -0.5% of rate	ig power on ver on. it. ed Vout.		
NALOG PROGRAMMING AND MONITORING (ISO Vout voltage programming lout voltage programming (*15) Vout resistor programming lout resistor programming (*15) Output voltage monitor	 	0.01% of rat 10V~100V m 150V~600V: ROM THE O 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~1	70PPM/oC f red lout over nodel: Less t Less than + UTPUT) 5V or 0~10V 5V or 0~10V 5/10Kohm f 5/10Kohm f 0V, user selo	rom rated ou 8hrs. interva han +/-0.25% / 0.15% of ra /, user selecta , user selecta ull scale, use ull scale, user ectable. Accu	tput current al following : 6 of rated ou ted output c uble. Accuracy ble. Accuracy r selectable. A selectable. A uracy: +/-0.5 ^c	, following 38 80 minutes w tput current wrrent over 3 y and linearity Accuracy and ccuracy and %.	0 minutes wa varm-up. Con over 30 minu 30 minutes fo ty: +/-0.15% y: +/-0.4% of d linearity: +/	rm-up. stant line, lc ites following llowing pov of rated Vou rated lout. -0.5% of rate	ig power on ver on. it. ed Vout.		
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GENESYS[™] 5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
I.Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
P.Rated output current (*2)	A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
.Rated output power	W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
IPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
.Input voltage/freg. 3 phase, 3 wire + Ground (*4)					0~265Va 2~460Vac										
input voltage/neq. 5 phase, 5 whe i Globalia (4)						-				0/460/480	Wac)				
Maximum Input current at 3-Phase, 200V models	:	17.5A @	200Vac												
00% load 3-Phase, 400V model		9.2A @ 3													
Power Factor (Typ) 3-Phase, 480V model:	s: 	9.2A @ 3		ac rated	output p	ower									
Efficiency (Typ) (*5) (*22)	%	89 (*21)		91	91	90	91	91	91	91	91	92	92	92	92
Inrush current (*6)	Α	Less tha													
ONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
.Max. Line regulation (*7)		0.01% of	f rated ou	utput vol	tage										
Max. Load regulation (*8)		0.01% of	f rated ou	utput vol	tage +5m	V									
.Ripple and noise (p-p, 20MHz) (*9) .Ripple r.m.s. 5Hz~1MHz (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
.Temperature coefficient	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
.Temperature stability		50PPM/°													
. Warm-up drift										Constant		d & temp			
Remote sense compensation/wire (*10)	 V	2	2 2	5% of rate		voltage	+2mv ov	er 30 mir 5	5	owing por	ver on.	5	5	5	5
2.Up-prog. Response time (*11) 10.Down-prog.response time:	mS	30	30	30	30		5 5 50 50	50	5		5	5	5 100	5 100	100
Full load (*11)	mS	50	50	80	80		00 80	100	100		100	100	150	200	200
No load (*12)	mS	300	600	800	900		000000	1200	1900		2500	3000	4000	4000	3000
1.Transient response time	mS	Time for	output	/oltage to	, recover	within 0.	5% of its	rated ou	tput for a	load char	nge 10~9	0% of rat	ted outpu	it current	. Output
	6	10~1009	%, Local s	sense. Le	ss than 1	nS, for m	odels up	to and ir	ncluding	100V. 2m	5, for mo	dels abov	ve 100V.		
2.Start up delay	Sec	Less tha													
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
.Max. Line regulation (*7)				utput cu											
.Max. Load regulation (*13)	 mA	0.08% of ≤1200		utput cur ≤300		≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
. <u>Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14)</u> .Temperature coefficient	mA PPM/°(s warm-u		212	512	510	
.Temperature stability						· ·				s warm-u					
. Warm-up drift										Constant		d & temp	erature.		
		10V~100	0V mode	I: Less th	an +/-0.2	5% of rat	ed outpu	t current	over 30 r	ninutes fo es followi	ollowing	power o	n.		
NALOG PROGRAMMING AND MONITORING (ISOL .Vout voltage programming .lout voltage programming (*15)	ATED F	0~100%	, 0~5V oı	r 0~10V,	user seleo	table. Ac	curacy a	nd linear	itv: +/-0 1	5% of rat	ed Vout.				
		0~100%	, 0~5V or	· 0~ 10V, t	user selec	table. Ac	uracy an			6 of rated					
.Vout resistor programming		0~100%	, 0~5/10	Kohm fu	l scale, u	er select	able. Acc	d linearit uracy an	y: +/-0.4% d linearit	6 of rated y: +/-0.5%	lout. of rated				
8.Vout resistor programming 1.lout resistor programming (*15)		0~100% 0~100%	, 0~5/10 , 0~5/10	Kohm ful Kohm ful	ll scale, u: l scale, us	er select er selecta	able. Acc	d linearit uracy an iracy and	y: +/-0.4% d linearit linearity:	6 of rated	lout. of rated				
.Vout resistor programming .lout resistor programming (*15) .Output voltage monitor		0~100% 0~100% 0~5V or	, 0~5/10 , 0~5/10ł 0~10V, u	Kohm ful Kohm ful Iser selec	ll scale, u l scale, us table. Ac	er select er selecta curacy: +	able. Acc ble. Accu /-0.5% o	d linearit curacy an iracy and f rated Vo	y: +/-0.4% d linearit linearity: out.	6 of rated y: +/-0.5%	lout. of rated				
.Vout resistor programming Lout resistor programming (*15) Output voltage monitor .Output current monitor (*15)	 	0~100% 0~100% 0~5V or	, 0~5/10 , 0~5/10ł 0~10V, u	Kohm ful Kohm ful Iser selec	ll scale, u: l scale, us	er select er selecta curacy: +	able. Acc ble. Accu /-0.5% o	d linearit curacy an iracy and f rated Vo	y: +/-0.4% d linearit linearity: out.	6 of rated y: +/-0.5%	lout. of rated				
.Vout resistor programming .lout resistor programming (*15) .Output voltage monitor .Output current monitor (*15) . IGNALS AND CONTROLS (ISOLATED FROM THE O U	 	0~100% 0~100% 0~5V or	, 0~5/10 , 0~5/10ł 0~10V, u	Kohm ful Kohm ful Iser selec	ll scale, u l scale, us table. Ac	er select er selecta curacy: +	able. Acc ble. Accu /-0.5% o	d linearit curacy an iracy and f rated Vo	y: +/-0.4% d linearit linearity: out.	6 of rated y: +/-0.5%	lout. of rated				
Vout resistor programming Lout resistor programming (*15) Output voltage monitor Output current monitor (*15) GONALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or	, 0~5/10 , 0~5/10 0~10V, τ 0~10V, τ 0~10V, α	Kohm ful Kohm full user selec iser selec tput mor	ll scale, u l scale, us table. Ac table. Acc nitor. Ope	er select er selecta curacy: + uracy: +/ n collect	able. Acc ble. Accu /-0.5% o -0.5% of or. Outpu	d linearit curacy and iracy and f rated Vo rated Iou ut On: On	y: +/-0.4% d linearit linearity: put. t. . Output	6 of rated y: +/-0.5% +/-0.5% c	lout. o frated of rated lo	out. Voltage:			וא Curre
8.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OL 1. Power supply OK #1 signal 2. CV/CC signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or Power st	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u upply ou lonitor. C	Kohm ful Kohm ful Iser selec Iser selec tput mor Open coll	Il scale, u I scale, us Itable. Ac table. Acc nitor. Ope ector. CC	er select er selecta curacy: + uracy: +/ n collect mode: O	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo	Id linearit curacy and iracy and f rated Vo rated Iou ut On: On ode: Off. N	y: +/-0.4% d linearit linearity: but. t. . Output	6 of rated y: +/-0.5% +/-0.5% c Off: Off. N Voltage:	lout. o frated frated lo laximum 30V, Max	voltage:	nk Currer	nt: 10mA.	
Vout resistor programming Iout resistor programming (*15) i.Output voltage monitor i.Output current monitor (*15) iGNALS AND CONTROLS (ISOLATED FROM THE OL . Power supply OK #1 signal . CV/CC signal t. LOCAL/REMOTE Analog control	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC M Enable/I	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u upply ou lonitor. C Disable a	Kohm ful Kohm ful Iser selec Iser selec tput mor Open coll Inalog pr	ll scale, us I scale, us I scale, Ac I scale. Ac table. Acc nitor. Ope ector. CC ogrammi	er select er selecta curacy: + uracy: +/ n collect mode: O ng contr	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mc ol by elev	d linearit curacy an iracy and f rated Vo rated lou ut On: On ode: Off. N ctrical sig	y: +/-0.4% d linearit linearity: but. t. . Output Maximum mal or dr	6 of rated y: +/-0.5% +/-0.5% c Off: Off. M Voltage: y contact.	lout. o of rated of rated lo laximum 30V, Max Remote	Voltage: iimum Sii : 0~0.6V	nk Currer or short.	nt: 10mA. Local: 2~	30V or o
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or Enable/I analog p	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u upply ou Ionitor. C Disable a program	Kohm ful Kohm ful Iser selec Iser selec tput mor Open coll Inalog pr ming cor	ll scale, us I scale, us I scale, Ac table. Ac table. Acc nitor. Ope ector. CC ogrammi trol mon	er select er selecta curacy: + uracy: +/ n collect mode: O ng contr itor signa	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by elev il. Open of	d linearit curacy and iracy and f rated Vo rated lou ut On: On ode: Off. N ctrical sig collector.	y: +/-0.4% d linearit linearity: but. t. . Output Maximum mal or dr Remote:	6 of rated y: +/-0.5% +/-0.5% c Off: Off. N Voltage:	lout. 6 of rated 10 of rated lo laximum 30V, Max Remote : Off. Ma:	Voltage: imum Sii : 0~0.6V ximum V	nk Currer or short. oltage: 3	nt: 10mA. Local: 2~: 0V, Maxin	30V or o num Sin
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC M Enable/I analog p Enable/I	, 0~5/10i , 0~5/10i 0~10V, u 0~10V, u upply ou lonitor. C Disable a programm Disable P	Kohm ful Kohm ful Iser select Iser select tput mor Open coll nalog pr ming cor PS output	ll scale, us i scale, us itable. Act table. Acc nitor. Ope ector. CC ogrammi itrol mon i by elect	er select curacy: + uracy: +/ n collect mode: O ng contr itor signa rical sign	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by elev il. Open o al or dry	d linearit curacy and iracy and f rated Vo rated lou ut On: On de: Off. A ctrical sig collector. contact.	y: +/-0.49 d linearit linearity: but. t. . Output Maximum mal or dr; Remote: 0~0.6V or	6 of rated y: +/-0.5% +/-0.5% c Off: Off. M Voltage: y contact. On. Local	lout. o of rated of rated lo laximum 30V, Max Remote: : Off. Maz :30V or o	Voltage: timum Sin : 0~0.6V ximum V open. Use	nk Currer or short. oltage: 3 r selectal	nt: 10mA. Local: 2~ 0V, Maxin ble logic.	30V or o num Sin
Vout resistor programming Jout resistor programming (*15) Output voltage monitor Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC N Enable/I analog p Enable/I Enable/I	, 0~5/10 , 0~5/10 , 0~10V, u 0~10V, u upply ou donitor. C Disable a programm Disable P Disable P	Kohm ful Kohm full Iser select Iser select tput mor Open coll nalog pr ming cor S output S output	Il scale, u: I scale, us I scale, us I stable. Acc I stabl	er select curacy: + uracy: +/ n collect mode: O ng contr itor signa rical sign ical sign	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mc ol by elec il. Open o al or dry al or dry	d linearit curacy and iracy and f rated Vo rated lou ut On: On de: Off. N ctrical sig collector. contact. I	y: +/-0.49 d linearity linearity: but. t. . Output Maximum nal or dru Remote: 0~0.6V on Remote: C	6 of rated 9: +/-0.5% c 	lout. o of rated of rated lo laximum 30V, Max Remote: : Off. Maz :30V or o short. Lo	Voltage: imum Sii : 0~0.6V ximum V pen. Use cal: 2~30	nk Currer or short. oltage: 3 er selectal IV or ope	nt: 10mA. Local: 2~: 0V, Maxin ble logic. n.	30V or o num Sin
8.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. TINTERLOCK (ILC) control 7. Programmed signals	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC N Enable/I Enable/I Two ope	, 0~5/10 , 0~5/10 , 0~10V, u 0~10V, u upply ou donitor. C Disable a programm Disable P Disable P en drain p	Kohm ful Kohm full Iser select Iser select tput mor Open coll nalog pr ming con S output S output	Il scale, us scale, us table. Act table. Acc nitor. Ope ector. CC ogrammi ttrol mon by elect by elect mable sig	er selecta curacy: + uracy: +/ n collect mode: O ng contr itor signa rical sign nals. Maa	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by ele- al or dry al or dry al or dry cimm vo	d linearit curacy and iracy and f rated Vo rated lou ut On: On ode: Off. M ctrical sig collector. contact. I contact. I obtage 25	y: +/-0.49 d linearity linearity: but. t. . Output Maximum mal or dr. Remote: 0~0.6V or Remote: C V, Maxim	6 of rated 9: +/-0.5% c +/-0.5% c Off: Off. N Voltage: y contact. On. Local - short, 2~)~0.6V or	lout. o f rated lo f rated lo laximum 30V, Max Remote: : Off. Max :30V or o short. Lo urrent 10	Voltage: timum Sii : 0~0.6V i ximum V ipen. Use ical: 2~30 00mA (Sh	nk Currer or short. oltage: 3 r selectal DV or ope nunted by	nt: 10mA. Local: 2~: 0V, Maxin ble logic. n. / 27V zen/	30V or o num Sin er)
Vout resistor programming lout resistor programming (*15) Output voltage monitor Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC N Enable/I Enable/I Enable/I Two ope Maximu	, 0~5/10 , 0~5/10 , 0~5/10 0~10V, u 0~10V, u 0~10V, u 10 nitor. C Disable a program Disable P Disable P en drain p m low le	Kohm ful ser select ser select tput mor Dpen coll nalog pr ming cor to output to output or ogram vel input	Il scale, u: scale, us table. Act table. Acc nitor. Ope ector. CC ogrammi trol mon t by elect by elect mable sig voltage	er select curacy: + uracy: +/ n collect mode: O ng contr itor signa rical sign nals. Max = 0.8V,Mi	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by elev al or dry al or dry cimum vo nimum h	d linearit curacy and iracy and f rated Vo rated lou ut On: On ode: Off. M ctrical sig collector. contact. I contact. I oltage 25 nigh level	y: +/-0.4% d linearit linearity: but. t. . Output (Maximum nal or dr Remote: 0~0.6V or Remote: C V, Maxim l input vo	6 of rated 9: +/-0.5% c +/-0.5% c Off: Off. N Voltage: y contact. On. Local r short, 2- D~0.6V or um sink c	lout. o for rated of rated lo frated lo laximum 30V, Max 30V, Max 30V or o short. Lo urrent 10 5V, Maxi	Voltage: timum Sii to~0.6V vi ximum V pen. Use cal: 2~30 00mA (Sh mum hig	nk Currer or short. oltage: 3 r selectal DV or ope nunted by	nt: 10mA. Local: 2~: 0V, Maxin ble logic. n. / 27V zen/	30V or o num Sin er)
Vout resistor programming Jout resistor programming (*15) Output voltage monitor Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals . TRIGGER IN / TRIGGER OUT signals . DAISY_IN/SO control signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or 0~5V or CV/CC N Enable/I Enable/I Enable/I Two ope Maximu positive	, 0~5/10 , 0~5/10 , 0~5/10 0~10V, u 0~10V, u 0~10V, u 10 nitor. C Disable a program Disable P Disable P en drain p m low le edge trig	Kohm ful ser selective ser selective ser selective tput mor Open coll malog pr ming cor S output S output soogram vel input gger: tw-	Il scale, u: scale, us table. Act table. Act hitor. Ope ector. CC ogrammi trol mon t by elect by elect mable sig voltage	er select curacy: + uracy: +/ n collect mode: O ng contr itor signa rical sign nals. Max = 0.8V,Mi himum. T	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by elev al or dry al or dry cimum vo nimum h r,Tf=1us	d linearit curacy and iracy and f rated Vo rated lou ut On: On ode: Off. M ctrical sig collector. contact. I contact. I oltage 25 nigh level	y: +/-0.4% d linearit linearity: but. t. . Output (Maximum nal or dr Remote: 0~0.6V or Remote: C V, Maxim l input vo	6 of rated 9: +/-0.5% c +/-0.5% c Off: Off. N Voltage: y contact. On. Local - short, 2 >-0.6V or um sink c Itage = 2.	lout. o for rated of rated lo frated lo laximum 30V, Max 30V, Max 30V or o short. Lo urrent 10 5V, Maxi	Voltage: timum Sii to~0.6V vi ximum V pen. Use cal: 2~30 00mA (Sh mum hig	nk Currer or short. oltage: 3 r selectal DV or ope nunted by	nt: 10mA. Local: 2~: 0V, Maxin ble logic. n. / 27V zen/	30V or o num Sin er)
Vout resistor programming Jout resistor programming (*15) Output voltage monitor Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal .COCAL/REMOTE Analog signal .TNABLE/DISABLE signal .INTERLOCK (ILC) control .Programmed signals .TRIGGER IN / TRIGGER OUT signals .DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or 0~5V or CV/CC M Enable/I Enable/I Enable/I Two ope Maximu positive By electa	, 0~5/10 , 0~5/10 , 0~5/10 0~10V, u 0~10V, u 0~10V, u 0onitor. C Disable a program Disable P Disable P Disable P en drain p m low le edge trig rical Volt	Kohm ful ser select ser select tput mor Dpen coll nalog pr ming cor S output S output program vel input gger: tw= age: 0~0.	Il scale, us scale, us table. Act table. Act hitor. Ope ector. CC ogrammi trol mon by elect by elect mable sig voltage =10us mir	er select er select curacy: +/ uracy: +/ n collect mode: O ng contr itor sign rical sign rical sign als. May = 0.8V,Mi himum. T / or dry c	able. Acc ble. Accu /-0.5% of -0.5% of or. Outpu n. CV mo ol by elev al or dry al or dry cimum vo nimum h r,Tf=1us	d linearit curacy and iracy and f rated Vo rated lou ut On: On ode: Off. M ctrical sig collector. contact. I contact. I oltage 25 nigh level	y: +/-0.4% d linearit linearity: but. t. . Output (Maximum nal or dr Remote: 0~0.6V or Remote: C V, Maxim l input vo	6 of rated 9: +/-0.5% c +/-0.5% c Off: Off. N Voltage: y contact. On. Local - short, 2 >-0.6V or um sink c Itage = 2.	lout. o for rated of rated lo frated lo faximum 30V, Max 30V, Max 30V or o short. Lo urrent 10 5V, Maxi	Voltage: timum Sii to~0.6V vi ximum V pen. Use cal: 2~30 00mA (Sh mum hig	nk Currer or short. oltage: 3 r selectal DV or ope nunted by	nt: 10mA. Local: 2~: 0V, Maxin ble logic. n. / 27V zen/	30V or o num Sin er)
Vout resistor programming Jout resistor programming (*15) Output voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal .COCAL/REMOTE Analog signal .COCAL/REMOTE Analog signal .TOCAL/REMOTE Analog signal .TRIFERLOCK (ILC) control .Programmed signals .TRIGGER IN / TRIGGER OUT signals .DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES	 JTPUT) 	0~100% 0~100% 0~5V or 0~5V or CV/CC M Enable/I Enable/I Enable/I Enable/I Two ope Maximu positive By electr 4~5V=O	, 0~5/10i , 0~5/10i 0~10V, u 0~10V, u 0000, u	Kohm ful Kohm ful Iser select iser select tput mor Dpen coll nalog pr ming cor 'S output 'S output 'S output yel input age: 0~0 00hm im	I scale, us scale, us table. Act hitor. Ope ector. CC ogrammi trol mon by elect: by elect by elect voltage 10us mi 6V/2~30 pedance	er select ar selecta curacy: +/ uracy: +/ n collect mode: O ng contr itor signa rical sign ical sign ical sign nals. Man = 0.8V,Mi himum. T / or dry c	able. Acc ble. Acc bl	d linearit curacy and f rated Vo rated lou ut On: On de: Off. N ctrical sig collector. contact. I oltage 25 high level Maximur	y: +/-0.4% d linearity: but. t. . Output Maximum nal or dr. Remote: 0~0.6V on Remote: C V, Maxim l input vo n, Min de	6 of rated 9: +/-0.5% c 0:	lout. o of rated of rated lo frated lo aximum 30V, Max 30V, Max 30V or o short. Lo urrent 10 5V, Maximen 2 pul:	Voltage: imum Sii : 0~0.6V ximum V pen. Use cal: 2~30 00mA (Sh mum hig ses 1ms.	nk Currer or short. oltage: 3 or selectal IV or ope nunted by gh level in	at: 10mA. Local: 2~: 0V, Maxin ble logic. n. 27V zeno aput = 5V	30V or o num Sin er)
Vout resistor programming Jout resistor programming (*15) Output voltage monitor GULDUT voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog signal LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signals DAISY_IN/SO control signal 0. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation	 JTPUT) -	0~100% 0~100% 0~5V or 0~5V or CV/CC N Enable/I analog p Enable/I Two ope Maximu positive By elected 4~5V=O	, 0~5/10 , 0~5/10 , 0~5/10 , 0~10V, u 0~10V, u 10 nitor. C Disable a program Disable P Disable P Disable P en drain p m low lee edge trig rical Volt K, 0V (50	Kohm ful Kohm ful Iser select ser select tput mor Dpen coll nalog pr ming cor S output S output S output S output orogram vel input gger: tw= age:0~0 0ohm im welve (12	Il scale, us scale, us scale, us table. Act hitor. Ope ector. CC ogrammi trol mon by elect by elect by elect by elect sig voltage =10us mir .6V/2~30 .pedance	er select ar select curacy: +/ uracy: +/ n collect mode: O ng contr itor signa- rical sign nals. Maa = 0.8V,Mi himum. T / or dry c ==Fail I units in	able. Acc ble. Acc bl	d linearit curacy and f rated Vo rated lou ut On: On ode: Off. N ctrical sig collector. contact. I contact. I oltage 25 high level Maximur Slave mo	y: +/-0.4% d linearity: but. t. . Output Maximum nal or dr. Remote: 0~0.6V on Remote: C V, Maxim l input vo n, Min de	6 of rated 9: +/-0.5% c +/-0.5% c Off: Off. N Voltage: y contact. On. Local - short, 2 >-0.6V or um sink c Itage = 2.	lout. o of rated of rated lo frated lo aximum 30V, Max 30V, Max 30V or o short. Lo urrent 10 5V, Maximen 2 pul:	Voltage: imum Sii : 0~0.6V ximum V pen. Use cal: 2~30 00mA (Sh mum hig ses 1ms.	nk Currer or short. oltage: 3 or selectal IV or ope nunted by gh level in	at: 10mA. Local: 2~: 0V, Maxin ble logic. n. 27V zeno aput = 5V	30V or o num Sin er)
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Vout resistor programming Jout resistor programming (*15) Output voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control .LOCAL/REMOTE Analog signal .ENABLE/DISABLE signal .TRIGER IN / TRIGGER OUT signals .TRIGGER IN / TRIGGER OUT signals .DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES .Parallel operation .Series operation .Gonstant power control .Output resistance control .Selw rate control .Arbitrary waveforms ROGRAMMING AND READBACK (USB, LAN,	 	0~100% 0~100% 0~5V or 0~5V or CV/CC M Enable/I Enable/I Two ope Maximu positive By electit 4~5V=0 Possible Power si Limits th Emulate Program commu	, 0~5/10l , 0~5/10l 0~10V, u 0~10V, u upply ou donitor. C Disable a brogram Disable P Disable P en drain p m low le edge trig rical Volt. K, 0V (50 . Up to tw . Two ide upplies c e output s series r mable C nication	Kohm ful Kohm ful Isser selec Isser selec Isser selec Innalog pr Ming cor Soutput Sout	Il scale, us scale, us scale, us table. Act table. Act ector. CC ogrammi trol mon by elect by elect to y elect to y elect to y elect mable sig voltage =10us mir .6V/2~30 pedance 2) identica- nits. Refer nnected to a progy e. Resistai e and Ou the front. s can be s	er select curacy: + uracy: +/ n collect mode: O ng contr itor signa ical sign nals. May = 0.8V,Mi himum. T dor dry c l= Fail al units in to instru n Daisy c grammee nce range tput fall panel.	able. Acc ble. Acc bl	d linearit uracy and f rated Vo rated lou at On: On ode: Off. N ctrical sig collector. contact. 1 bottage 25 high level Maximur Slave mo anual. ynchroni rogramn OmΩ. Pro . Progran	y: +/-0.4% d linearit linearity: but. Output Aaximum nal or dr Remote: 0~0.6V or Remote: O V, Maxim linput vo n, Min de de. Refer ze their t ning via tl grammin nming rar	6 of rated 9: +/-0.5% +/-0.5% c Off: Off. N Voltage: y contact. On. Local short, 2- D~0.6V or um sink c ltage = 2. lay betwee to instruct um-on ar he comm g via the nge: 0.000 by comm	lout. o of rated of rated lo f rated lo	Voltage: imum Sii : 0~0.6V ximum V pen. Use cal: 2~30 00mA (Sh mum hig ses 1ms. hual. For ff. n ports on ication p 9 V/mSec he comm	nk Currer or short. oltage: 3: r selectal VV or ope nunted by th level in more poor r the fron ports or th c. or A/m nunicatio	at: 10mA. Local: 2~ 0V, Maxin ble logic. n. 7 27V zeni nput = 5V wer pleas t panel. te front p Sec. Prog n. ports o	30V or o num Sin er) ee consu banel. rammin r by the
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GENESYS[™] 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
1.Foldback protection						pply chan recycle in										
2.Over-voltage protection (OVP)		Output	shut-dov	vn. Reset	by AC ing	out recycl	e in auto	tart mod	e, by OUT	PUT but	ton, by re	ar panel	or by cor	nmunica	tion.	
3.Over -voltage programming range	V					5-55.125										
4. Over-voltage programming accuracy		+/-1% o	f rated ou	utput volt	tage											
5.Output under voltage limit (UVL)						w limit. D			alog pro	grammin	g. Preset	by front	panel or o	commun	ication po	ort.
6.Over temperature protection						very by au	tostart m	ode.								
7. Output under voltage limit (UVL)		Prevent	s adjustn	nent of Vo	out below	v limit.										
8. Output under voltage protection (UVP)						v limit. P.S T button,	•		5		ge condi	tion. Res	et by AC i	nput recy	cle in aut	ostar
FRONT PANEL																
1.Control functions		Multiple	options	with 2 Er	ncoders											
	-				anual adju	ust										
				anual adj												
	-					/P, Foldba										
				Function Front Pai		ion of LAN	N, IEEE, KS	32,85485	,USB or C	ptional	commun	cation in	iterrace.			
						ion of Bau	d Rate A	ddress IF	and com	municat	ion langu	lade				
						on Voltage							g			
		Analog	Monitor I	Functions	s - Selecti	on of Volt	age/Curr	ent Moni	toring 5V				-			
	-					ated outp										
2.Display						ed output										
2 Front Danal Buttons Indications	-					E, COMM										
3.Front Panel Buttons Indications						, External					FP, Auto	start, Saf	etstart, Fo	oldback V	/l, Remot	e
4. Front Panel Display Indications		(commu	inication), RS/USB	/LAN/IEE	E commu	nication,	Frigger, L	oad/Store	e Cell.						
ENVIRONMENTAL CONDITIONS																
1.Operating temperature		0~50°C,	100% loa	ad.												
2.Storage temperature		-30~85°	С													
3.Operating humidity	%	20~90%	RH (no d	condensa	tion).											
4.Storage humidity	%	10~95%	RH (no d	condensa	tion).											
5.Altitude (*17)	==_	Operati	na: 10000	Oft (3000r	m), outpu	it current	derating	2%/100m	n or Ta de	rating 1°	C/100m a	above 20	00m. Nor	operati	na: 40000	ft (12
MECHANICAL	-		5		<i>,,</i>		J								5	
		-														
1.Cooling		Forced a	ir coolin	g by inte	rnal fans.	Air flow c	lirection:	from Fror	nt panel t	o power	supply re	ar				
2.Weight	kg	2.7kW/3	.4kW - Le	ess than 6	.25kg.			5kW - Le	ess than 7	.5kg.						
3.Dimensions (WxHxD)	mm	W: 423, I	H: 43.6, D	: 441.5 (W	/ithout bu	usbars and	l busbars	cover),								
4.Vibration		W: 423, I	H: 43.6, D	: 553.2 (lr	ncluding ł	ousbars ar	nd busbai	s cover) (Refer to C	utline dr	awing).					
5.Shock		MIL-810	G, metho	od 514.6, J	Procedure	e I, test co	ndition A	nnex C - 2	2.1.3.1		-					
						nit is unp										
SAFETY/EMC																
1.Applicable standards:		111.61010	-1 (54)	2 2 No 61	010-1 150	C61010-1,	EN61010	-1								
1.1. Interface classification Safety						, J4, J5, J6			(comm	ication	ntions) a		azardourc			
	-	60≤Vout Vout≤5	t≤600V M 0V Mod	Andels: Output	, J1, J2, J3 utput & J it – Outp	8 (sense) a ut & J8 (s	are hazar	lous, J1, J	(commu 12, J3, J4, . 4. 15. 16.	15, J6, J7	& J9 (con	municat	ion optio	ns) are N	on Hazaro	dous.
		Input -	Ground	: 2835VE	DC 1min.				, , _ , , 01.	,					ľ	
	-	60V≤Vo	ut≤100\	V Models	s: Input -	- Output	& J8 (se	nse), J1, J	2, J3, J4,	J5, J6, J7	& J9 (co	mmunio	cation op	otions): 4	1242VDÇ	1mi
1.2 Withstand voltage		Output Output	out≤600 & J8 (se & J8 (se	JV Mode nse) - J1 nse) - Gi	is innut	- Output 4, J5, J6, J 500VDC t - Outpu 4, J5, J6, J 500VDC	It & IX (s	anse) 11	12 13 14	15 16 1	/ and 19	(comm	unicatior	n option	s): 4242V	/DC
1.3 Insulation resistance		100Moh	m at 25º	C. 70%RF	kutout te	o Ground		-								
2.Conducted emmision	-		120/ 2 -	c, rorone	<u>putput to</u>	o Ground Ient, Anne	1 500VD		Dart 15							
3.Radiated emission																
J.naulated effilssion		LIEC/EN6	1204-3 lr		environm	ient, Anne	ex h table	п.з and I	п4, FCC P	art 15-A,	VUL-A					
4. EMC compliance E M C(*18)	-	IE C (EA : -			environm											

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C. NOTES: * 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage. * 2: Minimum current is guaranteed to maximum 0.2% of rated output current.

* 3: G5kW : Derate 5A/1°C above 40°G3.4kW : Derate 5A/1°C above 40°C,
* 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
* 5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
* 6: Not including EMI filter inrush current, less than 0.2mSec.
* 7: 3-Phase 200V models: 170~265Vac, 3-Phase 400V models: 342~450Vac, 3-Phase 480V models: 342~528Vac. Constant load.
* 8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
* 9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.
* 10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
* 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
* 12: From 90% to 10% of Rated Output Voltage, and the rated voltage.
* 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
* 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current EW SH2-1MHz.
* 15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
* 16: Measured at the sensing point.
* 17: For 10V model Ta derating 2°C/100m.
* 18 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
* 19 Max, ambient temperature for using IEEE is 400A up to 40°C and 450A up to 30°C.
* 20 For 10V model only: Max, output current for using IEEE is 400A up to 40°C and 450A up to 30°C.
* 21: For 10V model only: For 3-Phase 200V efficiency is 88.5%<



GENESYS[™] 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

		1000 5	1500.2.4
OUTPUT RATING	G	<u>1000-5</u> 1000	1500-3.4 1500
1.Rated output voltage(*1) 2.Rated output current (*2)	A	5	3.4
3.Rated output power	Ŵ	5000	5000
	V		1500
		1000 2 Phase 2001/ mediate 170, 2001	
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)			/26347263Hz469ver/200/4739V46/460/480Vac)
2. Maximum Input current at 3-Phase, 200V model:		-	200Vac 380Vac
100% load 3-Phase, 480V model			rated output power.
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*3)	%	92	92
5.Inrush current (*6)	A		92 an 65A
CONSTANT VOLTAGE MODE	V		
		1000	1500
1.Max. Line regulation (*7) 2.Max. Load regulation (*8)		0.01% of rated	
3.Ripple and noise (p-p, 20MHz) (*9)	mV		utput voltage +5mV
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	900	900 200
5.Temperature coefficient	PPM/°C		
6.Temperature stability		· · ·	ge, following 30 minutes warm-up. ring 30 minutes warm-up. Constant line, load & temp.
7. Warm-up drift	 V		2mV over 30 minutes following power on.
B.Remote sense compensation/wire (*10)	mS	5	5
9.Up-prog. Response time (*11) 10.Down-prog.response time:	mS	150	150
10.Down-proglresponse time: Full load (*11)	mS	100	100
No load (*12)	mS	3000	3000
	1115		put for a load change 10~90% of rated output current. Output set-poin
11.Transient response time	Sec	10~100%, Local	sense. 2mS typical.
12.Start up delay	mS	Less that	an 5 Sec
13. Hold up time	v	5mS typical. Rate	ed output power.
CONSTANT CURRENT MODE		1000	1500
1.Max. Line regulation (*7)			l output current.
2.Max. Load regulation (*13)	mA		l output current.
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14)	PPM/°C	≤7	≤4
4.Temperature coefficient			ent, following 30 minutes warm-up.
5.Temperature stability		0.01% of rated lout over 8hrs. interval following	30 minutes warm-up. Constant line, load & temperature.
5. Warm-up drift		Less than +/-0.15% of rated output curr	ent over 30 minutes following power on.
ANALOG PROGRAMMING AND MONITORING (ISOL			
· · · · ·		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity	n 1/0 150/ of roted Vout
1.Vout voltage programming 2.lout voltage programming (*15)		0~100%, 0~5V of 0~10V, user selectable. Accuracy and linearity: 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity:	
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and intearity.	
4.lout resistor programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and li	-
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vou	-
6.Output current monitor (*15)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.	
· · ·			
1. Power supply OK #1 signal			Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current 10mA.
1. Power supply OK #1 signal 2. CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma	aximum Voltage: 30V, Maximum Sink Current: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current:
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. 0-	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. Putput ON: 0~0.6V or short. Output OFF: 2~30V or open."
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. Putput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener)
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i	iximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. uitput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela	iximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. uitput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0~0.6V/2~30V or dry contact.	iximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. uitput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela	iximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. uitput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive
		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum.Tr,Tf=1us.Maximum, Min dela By electrical Voltage: 0=0.6V/2=30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail	aximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: -0.6V or short, 2~30V or open. User selectable logic. -0.6V or short, 2~30V or open. User selectable logic.
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us. Maximum, Min dela By electrical Voltage: 0-0.6/J/2-30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re	iximum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. uitput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0-0.6V/230V or dry contact. 45V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible	A for the provided and
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0=0.6V/2=30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronize	A construction manual. For more power please consult with Factory et their turn-on and turn-off.
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Rable/Disable PS output by electrical signal or dry contact. O "Analog programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0~0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizz Limits the output power to a proggrammed value. Programmi	A construction manual. For more power please consult with Factory et al their turn-on and turn-off. mg via the communication ports or the front panel.
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: O=0.6V/2=30V or dry contact. 4>5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog	A comparison of the formation of the for
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Rabie/Disable PS output by electrical signal or dry contact. O "Analog programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0~0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. R Not Possible Power supplies can be connected in Daisy chain to synchroniza Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm	A construction manual. For more power please consult with Factory et al their turn-on and turn-off. mg via the communication ports or the front panel.
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us.Maximum, Min dela By electrical Voltage: O=0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel.	A for dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. Tutput ON: 0~0.6V or short. Output OFF: 2~30V or open." Maximum sink current 100mA (Shunted by 27V zener) nput voltage = 2.5V, Maximum high level input = 5V positive ay between 2 pulses 1ms. effer to instruction manual. For more power please consult with a their turn-on and turn-off. ng via the communication ports or the front panel. ramming via the communication ports or the front panel. Ining range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the
		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us.Maximum, Min dela By electrical Voltage: O=0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel.	A comparison of the formation of the for
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us.Maximum, Min dela By electrical Voltage: O=0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel.	A comparing the communication ports or the front panel. ramming via the communication ports or the front panel. ramming via the communication ports or the front panel. ramming via the communication ports or A/mSec. Programming via the
		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Readel/Disable PS output by electrical signal or dry contact. O "Readel/Disable PS output by electrical signal or dry contact. O "Readel/Disable PS output by electrical signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0-0.6V/2~30V or dry contact. 45V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchroniz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Act 1000	ai or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. lemote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: ~0.6V or short, 2~30V or open. User selectable logic. ~0.6V or short, 2~30V or open. " Maximum sink current 100mA (Shunted by 27V zener) ~0.6V or short, Output OFF: 2~30V or open." ~0.6V or short, 2~30V or open." ~0.6V or short, Output OFF: 2~30V or open." ~0.6V or short, 2~30V or open." ~0.6V or short, Output OFF: 2~30V or open."
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Second triage: tw=10us minimum. Tr, Tf=1us.Maximum, Min dela By electrical Voltage: 0–0.6V/2–30V or dry contact. 4~5V=OK, 0V (5000hm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchroniz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Act 1000	A strimum Voltage: 30V, Maximum Sink Current: 10mA. al or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: -0.6V or short, 2~30V or open. User selectable logic. -0.6V or short, 2~30V or open. User selectable logic. -0.6V or short. 2~30V or open. User selectable logic. -0.6V or short. 2~30V or open. User selectable logic. -0.6V or short. Output OFF: 2~30V or open." -Maximum sink current 100mA (Shunted by 27V zener)
	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O Enable/Disable PS output by electrical signal or dry contact. C Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us.Maximum, Min dela By electrical Voltage: 0-0.6V/230V or dry contact. 4~5V=OK, 0V (5000hm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. R Not Possible Power supplies can be connected in Daisy chain to synchroniz Limits the output power to a programmed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Program communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Act 1000	A string and the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or by the front panel. The string via the communication ports or by the front panel. The string via the communication ports or by the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the communication ports or the front panel. The string via the string via the communication ports or the front panel. The string via the string via the communication ports or the front panel. The string via the string via the communication ports or the front panel. The string via the string via
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	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O Enable/Disable PS output by electrical signal or dry contact. O Two open drain programmable signals. Maximum voltage 25V, Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0–0.6V/2–30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchronizy Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Program communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Act 1000 0.05% of rated 0.1% of actual output currer 0.002% of rated 0.003% of rated	A contract and the communication ports or the front panel. Tramming via the communication ports or the front panel. Tramming via the communication ports or by the front panel. Tramming via the communication ports or by the front panel. The transmission of the the the communication ports or the front panel. The transmission of the
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SIGNALS AND CONTROLS (ISOLATED FROM THE O 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy (*15) 7. Vout readback resolution (of rated output voltage) 8. Jout and back resolution (of rated output voltage) 8. Jout program()	 	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Ma Enable/Disable analog programming control by electrical sign Analog programming control monitor signal. Open collector. F Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Enable/Disable PS output by electrical signal or dry contact. O "Maximum low level input voltage = 0.8V,Minimum high level i edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min dela By electrical Voltage: 0~0.6V/2~30V or dry contact. 4~5V=OK, 0V (500ohm impedance)=Fail Possible. Up to four (4) identical units in Master/Slave mode. Re Not Possible Power supplies can be connected in Daisy chain to synchroniz Limits the output power to a proggrammed value. Programmi Emulates series resistance. Resistance range: 1~1000mΩ. Prog Programmable Output rise and Output fall slew rate. Programm communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Act 1000 0.05% of rated 0.1% of actual output curren 0.002% of rated 0.003% of rated	A symmetry of the communication ports or the front panel. There is the communication ports or the front panel. There is the communication ports or the front panel. The the communication ports or the front panel. The the communication ports or the front panel. The communication ports or



GENESYS[™] 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

PROTECTIVE FUNCTIONS	V	1000	1500
1.Foldback protection			or Power Limit to CC mode or from CC or Power Limit to CV mode. Us ver switch, by OUTPUT button, by rear panel or by communication.
2.Over-voltage protection (OVP)		Output shut-down. Reset by AC input recycle in autostart mode	, by Power Switch, by OUTPUT button, by rear panel or by communic
3.Over -voltage programming range	V	5~1212.75	5~1653.75
4. Over-voltage programming accuracy		+/-1% of rated output voltage	
5.Output under voltage limit (UVL)			alog programming. Preset by front panel or communication port.
6.Over temperature protection		Shuts down the output. Auto recovery by autostart mode.	
7. Output under voltage protection (UVP)		Prevents adjustment of Vout below limit. P.S output turns Off d mode, by Power Switch, by OUTPUT button, by rear panel or by	uring under voltage condition. Reset by AC input recycle in autostart communication.
FRONT PANEL			
1.Control functions		Multiple options with 2 Encoders	
	-	Vout/Iout/Power Limit manual adjust	
		OVP/UVL/UVP manual adjust Protection Functions - OVP, UVL,UVP, Foldback, OCL, ENA, ILC	
	-	Communication Functions - Selection of LAN, IEEE, RS232, RS485,	USB or Optional communication interface
		Output ON/OFF. Front Panel Lock.	obb of optional communication interface.
		Communication Functions - Selection of Baud Rate, Address, IP	and communication language.
		Analog Control Functions - Selection Voltage/resistive program	
		Analog Monitor Functions - Selection of Voltage/Current Monit	
2.Display	-	Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 cou	
2.Display		lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTE	
3.Front Panel Buttons Indications			
5.FIGHT Faller Buttons indications	-	Voltage, Current, Power, CV, CC, CP, External Voltage, External C (communication), RS/USB/LAN/IEEE communication, Trigger, Lc	urrent, Address, LEP, Autostart, Safetstart, Foldback V/I, Remote
4. Front Panel Display Indications		(communication), RS/USB/LAN/IEEE communication, Trigger, LC	ad/store Cell.
ENVIRONMENTAL CONDITIONS			
1.Operating temperature		0~50°C, 100% load.	
2.Storage temperature		-30~85°C	
3.Operating humidity	%	20~90% RH (no condensation).	
4.Storage humidity	%	10~95% RH (no condensation).	
5.Altitude (*17)	==-	Operating: 10000ft (3000m), output current derating 2%/100m	or Ta derating 1°C/100m above 1500m. Non operating: 40000ft (120
MECHANICAL			
1.Cooling		Frank and a standard built in the set of the	•
2.Weight		Forced air cooling by internal fans. Air flow direction: From fron	t panel to power supply rear
	kg	Less than 8.5Kg.	
3.Dimensions (WxHxD)	mm	W: 423, H: 43.6, D: 486.5 (Without busbars and busbars cover), W:	423, H: 43.6, D: 598.1 (Including busbars and busbars
4.Vibration		cover) Refer to Outline drawing.	
5.Shock		MIL-810G, method 514.6, Procedure I, test condition Annex C - 2	.1.3.1
SAFETY/EMC		Less than 20G, half sine, 11mSec. Unit is unpacked.	
1. Safety standards:			
		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.	
1.1. Interface classification Safety	-	Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (cor	nmunication options) are Non Hazardous.
		• • • • • • • • • •	
1.2 Withstand voltage		Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (cor J2, J3, J4, J5, J6, J7 and J9 (communicatoin options): 2000VD Ground: 2835VDC 1min.	nmunicatoin options): 4000VDC 1min, Output & J8 (sense) - J1, C 1min, Output & J8 (sense) - Ground: 3280VDC 1min. Input -
1.3 Insulation resistance		>100Mohm at 25°C, 70%RH, Output to Ground 500VDC.	
2.EMC standards (*18)		IEC/EN61204-3 Industrial environment.	
2.1. Conducted emmision		IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC	Part 15-A VCCI-A
2.2. Radiated emission		IEC/EN61204-3 Industrial environment, Annex H table H.3 , I CC	
z.z. naulated efflission		ILC/LING 1207-5 INCUSTION ENVIRONMENT, ANNEX IT LODE D.5 drug n	T, I CC I alt 13-A, VCCFA

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

* 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
* 2: Minimum current is guaranteed to maximum 0.2% of rated output current.
* 3: Typ. at Ta=25°C, rated output power.
* 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase models.
* 5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase480V: At 380Vac input voltage. With rated output power.
* 6: Not including EMI filter inrush current, less than 0.2mSec.
* 7: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.
* 9: Form Neulona to EVIL Load constant in Parantee in Parantee in Parantee Internet Internet Parantee Internet in Parantee Internet in Parantee Internet Par

* 7: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342-528Vac. Constant load.
* 8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
* 9: Measured with 100:1 probe.
* 10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
* 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
* 12: From 90% to 10% of Rated Output Voltage.
* 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
* 14: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz.
* 15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

* 16: Measured at the sensing point.
* 17: Max. ambient temperature for using IEEE is 40°C.
* 18 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.



GENESYS[™] 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
Rated output voltage(*1)	V	20	30	40	60	80	100	150	200	300	600	1000	1500
Rated output current (*2). Rated output power	A	375 7500	250 7500	188 7520	125 7500	94 7520	75 7500	50 7500	37.5 7500	25 7500	12.5 7500	7.5 7500	5 7500
NPUT CHARACTERISTICS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
Input voltage/freq. 3 phase, 3 wire+ground (*4).				28vac, 47	554A5-(477	63Hz8(6/92	6/4 75/440	3/460/480V	hase, ac).				
Maximum Input current at 3-Phase, 200V models	s:	25.5A @ 20											
00% load 3-Phase, 480V models		13.5A @ 38											
Power Factor (Typ.)		0.94 @ 200)/380Vac, I	rated outp	ut power.								
Efficiency (Typ.) (*5) (*3)	%	91	91	91	91	91	91	91	91	91	92	92	92
Inrush current (*6)	A	Less than e	55A.										
ONSTANT VOLTAGE MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
Max. Line regulation (*7)		0.01% of ra				00	100	.50	200	500	000		.500
Max. Load regulation (*8)				ut voltage	+5mV.								
Ripple and noise (p-p, 20MHz) (*9)	mV mV	80	80	80	80	90	90	150	250	150	450	1100	1300
Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	10	8	12	15	15	20	45	60	100	250	500
Temperature coefficient		50PPM/°C	from rate	d output v	oltage, foll	owing 30	minutes w	arm-up.					
Temperature stability		0.01% of ra	ated Vout	over 8hrs.	interval fo	lowing 30	minutes v	varm-up. C	onstant lin	e, load & t	emperatu	re.	
Warm-up drift	v	Less than (s following	power on				
Remote sense compensation/wire (*10)	mS	2	5	5	5	5	5	5	5	5	5	5	5
Up-prog. response time (*11) Down-prog. response time Full load (*11)	mS	30	30	30	50	50	50	50	50	50	100	150	200
	-	50	80	80	80	100	100	100	100	100	100	100	100
No load (*12)		600	500	1000	1000	1000	1500	2500	2000	3000	3000	3000	3000
.Transient response time		Output set	point: 10	~100%, Lo	cal sense.			tput for a lo	-	e 10~90%	of rated o	utput curre	ent.
.Start up delay		Less than											
3.Hold-up time		5mS Typic	al. Rated c	output pov	ver.								
ONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
Max. Line regulation (*7)		0.05% of r	ated outp	ut current.									
Max. Load regulation (*13)		0.08% of r	ated outp	ut current.									
Ripple r.m.s. 5Hz~1MHz (*14)	₽₽ [₩] А~0	≤900	≤500	≤300	≤150	≤100	≤70	≤45	≤20	≤15	≤14	≤10	≤5
Temperature stability								lowing 30					
Varm-up drift								llowing 30					
								arm-up. Co				e.	
		20V~100V	models: L	ess than +	/-0.25% of	rated outp	out current	over 30 m ent over 30	inutes follo	owing pov	ver on.		
							-						
NALOG PROGRAMMING AND MONITORING (ISOL	ATED F	ROM THE C	OUTPUT)										
out voltage programming								ty: +/-0.15%					
out voltage programming (*15)		0~100%, 0											
out resistor programming								nearity: +/-					
lout resistor programming (*15)								nearity: +/-	0.5% of rat	ed lout.			
Output voltage monitor					. Accuracy								
Output current monitor (*15)		0~5V OF 0^	~10v, user	selectable	. Accuracy	+/-0.5% 0	r rated lou	t.					
IGNALS AND CONTROLS (ISOLATED FROM THE OU	JTPUT)												
Power supply OK #1 signal		Power sup											
CV/CC signal									-			rent: 10mA	
LOCAL/REMOTE Analog control												rt. Local: 2~	
LOCAL/REMOTE Analog signal ENABLE/DISABLE signal			-	-								: 30V. Maxi	
ENABLE/DISABLE signal INTERLOCK (ILC) control												table logic	
Programmed signals												~30V or op	
		I wo open Maximum								ent TOOMA	snunted	by 27V zer	iei).
TRIGGER IN / TRIGGER OUT signals		Maximum	high level	l input = 5	/ positive e	dge triaae	er: tw = 10	us minimu	n. Tr,Tf = 1	us maxim	um.		
		Min delay	between 2	2 pulses 1n	ns.						-		
-		By electric	2	: 0~0.6V/2		v contact.							
DAISY_IN/SO control signal	-		01/ (5000										
DAISY_IN/SO control signal		4~5V = 0K	, 00 (3002.	2 impedano	ce) = Fail.	,							
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal	-	4~5V = 0K	, 00 (3002.	2 impedano	ce) = Fail.								
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES	-			·		-	de. Refer tø	o instructio	on manual.				
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES Parallel operation		Possible. L	lp to 4 ide	ntical unit		/Slave mo		o instructio	on manual.				
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES Parallel operation Series operation		Possible. L Possible. T	lp to 4 ide wo identi	ntical units cal units. R	s in Master efer to inst	/Slave mo	anual.	o instructio		urn-off.			
AISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control		Possible. L Possible. T Power sup Limits the	Ip to 4 ide wo identi plies can l output pc	ntical units cal units. R be connect ower to a p	s in Master efer to inst ted in Dais; rogramme	/Slave mo ruction m / chain to : d value. Pr	anual. synchroniz ogrammir	e their turi g via the c	n-on and tu ommunica	tion ports		· ·	
AISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control	 	Possible. L Possible. T Power sup Limits the Emulates s	Ip to 4 ide wo identi plies can l output po series resis	ntical units cal units. R be connect ower to a p stance. Res	s in Master efer to inst ted in Dais rogramme istance rar	/Slave mo ruction m y chain to : d value. Pr ge: 1~100	anual. synchroniz ogrammir 0mΩ. Proc	e their turi	n-on and tu ommunica	tion ports		· ·	
AISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal INCTIONS AND FEATURES arallel operation eries operation laisy chain onstant power control Dutput resistance control	 	Possible. L Possible. T Power sup Limits the Emulates s Programm	Ip to 4 ide wo identi- plies can l output po series resis able Outp	ntical units cal units. R be connect ower to a p stance. Res out rise and	s in Master efer to inst ted in Daisy rogramme istance rar d Output fa	/Slave mo ruction m y chain to d value. Pr ge: 1~100 Il slew rate	anual. synchroniz ogrammir 0mΩ. Prog e.	e their turi g via the c	n-on and tu ommunica	tion ports		· ·	
AISY_IN/SO control signal AISY_OUT/PS_OK #2 signal AISY_OUT/PS_OK #2 signal AISY_OUT/PS_OK #2 signal AISY CONTROL AISY CONT	 	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm	Ip to 4 ide wo identi- plies can l output pc series resis able Outp ing range	ntical unit: cal units. R be connect ower to a p stance. Res out rise and : 0.0001~9	s in Master efer to inst ted in Dais rogramme istance rar	/Slave mo ruction m y chain to : d value. Pr ge: 1~100 Il slew rato 5. or A/mS.	anual. synchroniz ogrammir 0mΩ. Pro <u>c</u> e.	e their turi g via the c	n-on and tu ommunica	tion ports		· ·	
AISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal NCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Dutput resistance control Silew rate control	 	Possible. U Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of	Ip to 4 ide wo identi- plies can l output po series resis able Outp ing range ing via co up to 100	ntical unit: cal units. R be connect ower to a p stance. Res out rise and : 0.0001~9 mmunicat steps can	s in Master efer to inst ted in Daisy rogramme istance rar d Output fa 99,99 V/m ion ports c be stored i	/Slave mor ruction m / chain to : d value. Pr ge: 1~100 Il slew rato 5. or A/mS. r front par n 4 memo	anual. synchroniz ogrammir 0mΩ. Pro <u>c</u> e. nel. ry cells.	te their turi ng via the c gramming '	n-on and tu ommunica	tion ports		· ·	
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal JINCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms	 	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of Activation	Ip to 4 ide wo identi- plies can l output po series resis able Outp ing range ing via co up to 100 by comm	ntical unit: cal units. R be connect ower to a p stance. Res out rise and : 0.0001~9 mmunicat steps can and via co	s in Master efer to inst ted in Daisy rogramme istance rar d Output fa 99.99 V/m ion ports c be stored i mmunicati	/Slave mo ruction m c chain to d value. Pr ge: 1~100 Il slew rat 5. or A/mS. r front pai n 4 memo on ports-c	anual. synchroniz ogrammir 0mΩ. Prog e. nel. ry cells. rr front par	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	
DAISY_IN/SO control signal .DAISY_OUT/PS_OK #2 signal INCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms ROGRAMMING AND READBACK	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of Activation 20	Ip to 4 ide wo identi plies can l output po series resis iable Outp ing range ing via co up to 100 by comm 30	ntical unit: cal units. R be connect ower to a p stance. Res out rise and : 0.0001~9 mmunicat steps can and via co 40	s in Master efer to inst ted in Daisy rogramme istance rar d Output fa 99,99 V/m ion ports c be stored i	/Slave mor ruction m / chain to : d value. Pr ge: 1~100 Il slew rato 5. or A/mS. r front par n 4 memo	anual. synchroniz ogrammir 0mΩ. Pro <u>c</u> e. nel. ry cells.	te their turi ng via the c gramming '	n-on and tu ommunica	tion ports		· ·	1500
DAISY_IN/SO control signal .DAISY_OUT/PS_OK #2 signal INCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control Slew rate control Slew rate control OGRAMMING AND READBACK SB, LAN, RS232/485, Optional (*17) (*20) Interface	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of Activation 20	Ip to 4 ide wo identi plies can l output pois able Outpu ing range ing via co up to 100 by comm 30 ated outpu	ntical unit: cal units. R be connect wwer to a p stance. Reso ut rise and : 0.0001~9 mmunicat steps can and via co 40 ut voltage.	s in Master efer to inst ted in Dais; rogramme istance rar 4 Output fa 99.99 V/m ion ports co be stored i mmunicat 60	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Pro <u>c</u> e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500
DAISY_IN/SO control signal .DAISY_OUT/PS_OK #2 signal .DAISY_OUT/PS_OK #2 signal INCTIONS AND FEATURES Parallel operation Daisy chain Constant power control Output resistance control Output resistance control Slew rate control Arbitrary waveforms COGRAMMING AND READBACK SB, LAN, RS232/485, Optional (*17) (*20) Interface fout programming accuracy (*16)	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Profiles of Activation 20 0.05% of rr 0.1% of ac	Ip to 4 ide wo identi plies can l output pci series resis iable Outpu ing range ing via co up to 100 by comm 30 ated outpu tual outpu	ntical unit: cal units. R be connect wer to a p stance. Res out rise anc : 0.0001~9 mmunicat steps can and via co 40 ut voltage. ut current -i	s in Master efer to inst ted in Dais; rogramme istance rar d Output fa 99.99 V/m: ion ports c be stored i mmunicati 60	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Pro <u>c</u> e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal DAISY_OUT/PS_OK #2 signal DAISY_OUT/PS_OK #2 signal DAISY_OUT/PS_OK #2 signal Parallel operation Series operation Daisy chain Constant power control Output resistance control Output resistance control Slew rate control Arbitrary waveforms ROGRAMMING AND READBACK SB, LAN, RS232/485, Optional (*17) (*20) Interface Vout programming accuracy (*16) Iout programming accuracy (*15)	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of rc 0.002% of	Ip to 4 ide wo identi plies can l output pc series resis iable Outp ing range up to 100 by comm 30 ated output tual outpur rated outp	intical unit: cal units. R be connect wer to a p stance. Res out rise ance. c 0.0001~9 mmunicat steps can and via co 40 ut voltage. ut current + put voltage	s in Master efer to insl ted in Dais; rogramme istance rar d Output fa 99.99 V/m; ion ports co be stored i mmunicati 60 -0.2% of ra e.	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Prog e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal JNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Silew rate control Arbitrary waveforms ROGRAMMING AND READBACK ISB, LAN, R5232/485, Optional (*17) (*20) Interface Vout programming accuracy (*16) loutp orgramming accuracy (*15) Vout programming resolution	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Profiles of Activation 20 0.05% of rr 0.002% of 0.002% of	Ip to 4 ide wo identii plies can l output pc output pc series resis iable Outp ing range ing via co up to 100 by comm 30 ated output ual output rated output rated output rated output	ntical unit: cal units. R be connect wer to a p stance. Res out rise anc : 0.0001 ~9 mmunicat steps can and via co 40 ut voltage. ut current -1 put voltage put current	s in Master efer to inst ted in Dais; rogramme istance rar d Output fa 99.99 V/m; ion ports c be stored i mmunicati 60 +0.2% of ra e. t.	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Prog e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500
DAISY_IN/SO control signal DDAISY_OUT/PS_OK #2 signal JNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms ROGRAMMING AND READBACK ISB, LAN, RS232/485, Optional (*17) (*20) Interface Vout programming accuracy (*16) Iout programming accuracy (*15) Vout programming resolution Iout programming resolution	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Profiles of Activation 20 0.05% of ra 0.002% of 0.002% of 0.002% of 0.002% of ra	Ip to 4 ide wo identi plies can l output pc series resis hable Outp ing range ing via co up to 100 by comm 30 ated output rated outp ated outp ated outp	ntical unit: cal units. R be connecto wer to a p stance. Res out rise anc : 0.0001~9 mmunicat steps can and via co 40 ut voltage. ut voltage. put voltage.	s in Master lefer to inst ted in Dais; rogramme istance rar d Output fa 99.99 V/m; ion ports c be stored i mmunicati 60 +0.2% of ra e. t.	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Prog e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation Daisy chain . Constant power control . Output resistance control . Output resistance control . Slew rate control . Arbitrary waveforms ROGRAMMING AND READBACK JSB, LAN, RS232/485, Optional (*17) (*20) Interface .Vout programming accuracy (*16) . Jout programming resolution . Jout programming resolution . Jout programming resolution . Jout programming resolution . Vout readback accuracy	 V	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.002% of 0.002% of 0.002% of ra	Up to 4 ide wo identi- plies can l output pc series resis- ing via co up to 100 by comm 30 ated output tual output rated output rated output red output	ntical unit: cal units. R be connect wer to a p stance. Res out rise anco : 0.0001~9 mmunicat steps can and via co 40 ut voltage. ut current - put voltage put voltage t current ut voltage.	s in Master efer to inst ted in Daisy rogramme istance rar d Output fa 99.99 V/m ion ports c be stored i mmunicat 60 +0.2% of ra e. t.	/Slave mo ruction m / chain to : d value. Pr gge: 1~1000 Il Islew ratt S. or A/mS. r front pai n 4 memo on ports c 80 ted outpu	anual. synchroniz ogrammir 0mΩ. Proc e. nel. ry cells. r front par 100 t current.	e their turn g via the c rramming nel. 150	n-on and tu ommunica via commu 200	ition ports inication p 300	600	1000	
DAISY_IN/SO control signal D.DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation . Series operation	 S) 	Possible. L Possible. T Power sup Limits the Emulates s Programm Programm Profiles of Activation 20 0.05% of ra 0.002% of 0.002% of 0.002% of 0.002% of ra	Ip to 4 ide wo identi plies can l output pc series resis hable Outp ing range ing via co up to 100 by comm 30 ated output rated outp ated outp ated outp	ntical unit: cal units. R be connecto wer to a p stance. Res out rise anc : 0.0001~9 mmunicat steps can and via co 40 ut voltage. ut current + put voltage. put current put voltage.	s in Master lefer to inst ted in Dais; rogramme istance rar d Output fa 99.99 V/m; ion ports c be stored i mmunicati 60 +0.2% of ra e. t.	/Slave mo ruction m y chain to d value. Pr gg: 1~100 Il slew rats 5. or A/mS. r front pai n 4 memo on ports c 80	anual. synchroniz ogrammir 0mΩ. Prog e. nel. ry cells. r front par 100	te their turing via the c gramming via the c gramming via the c	n-on and tu ommunica via commu	ition ports	ports or fro	nt panel.	1500 0.007% 0.003%



GENESYS[™] 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200	300	600	1000	1500	
1.Foldback protection											de or from (ar panel or l			/ mode. Us	er presetab
2.Over-voltage protection (O			Output shu	it-down. R	eset by AC	input recycl	e in autosta	art mode, by	Power Sw	itch, by Ol	JTPUT butto	n, by rear p	anel or by	communica	ation.
3.Over-voltage programming		V	1~24	2~36	2~44.1						5~330.75				
4.Over-voltage programming			+/-1% of ra												
5.Output under voltage limit (g programn	ning. Pres	et by front p	anel or com	municatio	n port.	
6.Over temperature protectio	n					covery by au									
7.Output under voltage prote	ction (UVP)		Prevents a Reset by A	djustment C input rec	of Vout bel ycle in auto	ow limit. P.S ostart mode	, by Power !	ns Off durir Switch, by C	ng under vo DUTPUT but	tton, by re	dition. ar panel or l	oy commun	ication.		
FRONT PANEL															
1.Control functions			Multiple o												_
			Vout/lout/			ajust									-
						UVP, Foldb	ack. OCL. El	A.ILC							-
									B or Option	ial commu	inication int	erface.			-
					t Panel Loc										-
						ction of Bau									-
										5K/10K pi	rogramming				-
						ction of Vol ¹ f rated outp			1g 5V/10V.						-
2.Display						ated output									1
									ON,CONFIG	URATION	, SYSTEM, SE	QUENCER.			1
3.Front Panel Buttons Indicati	ons										tostart, Safe		ack V/I. Re	mote (com	munication
4 Front Danal Disalautarit						n, Trigger, L			eng noules		costanty sale				
4. Front Panel Display Indicati	ons														
ENVIRONMENTAL CONDITIO	NS														
1.Operating temperature											sation). Op	2	00ft (3000	m),	
2.Storage temperature			output cur	rent derati	ng 2%/100	m or Ta der	ating 1°C/1	00m above	2000m. No	n operatir	ng: 40000ft (12000m).			
3.Operating humidity		%													
4.Storage humidity		%													
5.Altitude (*17)															1
MECHANICAL															
1.Cooling			Forcod air	cooling by	intornal fai	ns. Airflow d	iroction: Er	om front pa	nol to now	orcupply	(0.3)r				-
2.Weight					internal la	IS. AITTOW U	irection: Fi	om nom pa	nei to pow	er suppry i	edi.				-
-		kg	Less than 8	.5Kg.											_
3.Dimensions (WxHxD)		mm	W: 423, H: 4	43.6, D: 486	5.5 (Withou	t busbars ar	nd busbars (cover),							
4.Vibration			W: 423, H: •	13.6, D: 598	3.1 (Includir	ng busbars a	ind busbars	cover). Ref	e r to Outlin	e drawing					-
5.Shock			MIL-810G,	method 51	4.6, Proced	ure I, test co	ndition An	nex C - 2.1.3	3.1						-
SAFETY/EMC			Less than 2	0G, half sir	ne, 11mS. U	nit is unpac	ked.								
1.Applicable standards:															
1.1. Interface classification	Safety		UL61010-1	CSA22.2 N	lo.61010-1,	IEC61010-1,	EN61010-1								
			Vout≤50V	Models: Ou	tput, J1, J2.	J3, J4, J5, J6	, J7, J8 (sen	se) & J9 (cor	nmunicatio	n options)	are Non Ha	ardous.			1
		-									mmunicatio		re Non Haz	ardous.	-
				Models: Inp	ut – Outpu						options): 42				-
		- I				Output & Is	(sense) 11	12 13 14 1	5 16 17 8 10	9 (commu	nication opt	ions). 4242	/DC 1min		-
			Output & J	8 (sense)	J1. J2. J3. J4	•					Output & J8			OVDC 1min,	,
			Input - Gro												4
1.2 Withstand voltage			100V <vou Output & J Input - Gro</vou 	8 (sense)	J1, J2, J3, J4	– Output & , J5, J6, J7 &	J8 (sense), J J9 (commu	1, J2, J3, J4, nication op	J5, J6, J7 aı tions): 1275	nd J9 (com 5VDC 1mir	munication n, Output & J	options): 42 8 (sense) - 0	242VDC 1m Ground: 250	nin, 00VDC 1mii	n.
			1000V <vo Output & J Input - Gro</vo 	ut≤1500V M 8 (sense) und: 2835\	Models: Inp J1, J2, J3, J4 /DC 1min.	ut – Output I, J5, J6, J7 &	& J8 (sense J9 (commu), J1, J2, J3, . inication op	J4, J5, J6, J7 otions): 2000	' and J9 (co OVDC 1mir	ommunicati n, Output & .	on options): 18 (sense) - (4000VDC Ground: 32	1min, 80VDC 1mi	n.
1.3.Isolation resistance						ut to Groun									1
2.EMC standards (*18)			IEC/EN612	04-3 Indust	rial enviror	nment, Anne	ex H table F	I.1 , FCC Par	t 15-A, VCC	I-A.					-
						nment, Anne									-
						,				.,					1
2.1.Conducted emission 2.2.Radiated emission			IEC/EN612)4-3 Induct	rial enviror	ment									-

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C. NOTES: ** Coming soon *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V *2: Minimum current is guaranteed to maximum 0.2% of rated output current. *3 Typ. at Ta=25°C, rated output power. *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models. and 380-480Vac (50/60Hz) for 3-Phase 480V models. *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power. *6: Not including EMI filter inrush current, less than 0.2mS. *7: 3-Phase 200V models: 170-265Vac, 3-Phase 480V models: 342-528Vac. Constant load. *8: From No-Load to Full-Load, constant input voltage. *9: For 20V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~1500V models: Measured with 100:1 probe. *10: The maximum voltage on the power supply terminals must not exceed the rated voltage. *11: From 10% to 90% of Rated Output Voltage. *12: From 10% to 10% of Rated Output Voltage. *13: For lad voltage change, equal to the unit voltage rating, constant input voltage. *14: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz. *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift. *16: Measured at the sensing point. *17: Max, ambient temperature for IEEE is 40°C. *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.



GENESYS[™] GSP10kW SERIES SPECIFICATIONS

OUTPUT RATING	GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
I.Rated output voltage(*1)	V	10-1000	20-300	30	40-230	50	60	80	100-100	150-00	200-30	300	400	500-20	600
Rated output current (*2)	A	1000 (*3		340	250	200	170	130	100	68	50	34	26	20	17
B.Rated output power	kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
NPUT CHARACTERISTICS		10	20	30	40	50	60	80	100	150	200	300	400	500	600
											200	500		500	000
Input valtage/freq 2 phase 2 wire (Cround (*4)								200/230 380/400/					_		
.Input voltage/freq. 3 phase, 3 wire + Ground (*4)							<u> </u>			1460/400	()				
2 Phase 200V model		3-Phase 35A @ 2		aeis: 342	2~528Vac	,47~03H	z (Covers	380/400	/415/440	/460/480	vac)				
2. Maximum Input current at	a.	55A @ 2	oovac												
00% load 3-Phase, 400V models		18.4A @													
Power Factor (Typ) 3-Phase, 480V models	s: 	18.4A @													
.Efficiency (Typ) (*5) (*22)	%	0.94 @ 2	00/380Va	ac, rated 91			91	91	91	91	91	92	92	91	
.Inrush current (*6)	9% A	Less tha		91	91	91	91	91	91	91	91	92	92	91	92
AC line phase imbalance	×		II TOUA												
ONSTANT VOLTAGE MODE		< 5%													
	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Max. Line regulation (*7)		0.01% o	f rated ou	tput vol	tage										
Max. Load regulation (*8)		0.01% o	f rated ou	itput volt	age +5m	V									
Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
I.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
Temperature coefficient	PPM/°C							nutes war							
		0.01% o	f rated Vo	out over 8	3hrs inter	val follow	ing 30 m	ninutes w	arm-up. (Constant	line, load	l & temp.			
'. Warm-up drift .Remote sense compensation/wire (*10)		Less tha	n 0.05% (of rated o	utput vo	ltage+2m	V over 3	0 minute	s followir	ig power	on.				
·	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
0.Down-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
1.Transient response time	mS	Time for	output	oltage to	recover	within 0.5	% of its r	ated out	out for a l	oad chan	ge 10~90	0% of rate	ed outpu	t current	Output
		10~100	%, Local s	ense. Les	is than 1r	nS, for me	dels up	to and in	cluding 1	00V. 2mS	, for mod	lels abov	e 100V.		
2.Start up delay	Sec	Less tha							-						
ONSTANT CURRENT MODE															
Max. Line regulation (*7)		0.05% o	f rated ou	itput cur	rent.										
Max. Load regulation (*13)		0.08% o	f rated ou	Itput cur	rent.										
B.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*	∗14mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz.	TA25:C	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
.Temperature coefficient	PPM/°C	10V~100	V 100P	PM/oC fr	om ratod										
				110000	unnateu	output ci	urrent, fo	llowing 3	0 minute:	s warm-u	p.				
5.Temperature stability								llowing 3 lowing 30							
5.Temperature stability		150V~60 0.01% o	00V 70PP f rated lo	M/oC fro ut over 8	m rated o hrs. inter	output cu val follow	rrent, foll ring 30 m	lowing 30 ninutes w) minutes arm-up. (warm-up Constant	o. line, load				
.Temperature stability .Warm-up drift	ATED F	150V~60 0.01% o 10V~100 150V~60	00V 70PP f rated lo 0V model 00V: Less	M/oC fro ut over 8 : Less tha than +/-(m rated o hrs. inter	output cu val follow	rrent, foll ring 30 m	lowing 30) minutes arm-up. (warm-up Constant	o. line, load				
5.Temperature stability 7:Warm-up drift ANALOG PROGRAMMING AND MONITORING (ISOL 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming	ATED F	150V~60 0.01% o 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100%	00V 70PP f rated lo 0V model 00V: Less E OUTPU b, 0~5V or , 0~5V or b, 0~5/10l	M/oC fro ut over 8 : Less tha than +/-(T) 0~10V, u 0~10V, u (ohm ful	m rated o hrs. inter an +/-0.25 0.15% of user select ser select I scale, us	table. Acc er selecta	rrent, foll ring 30 m d output put curre curacy and uracy and able. Acco	lowing 30 ninutes w current o nt over 3 nd linearit d linearity uracy and) minutes arm-up. (over 30 m 0 minute y: +/-0.1 : +/-0.4% I linearity	warm-up Constant injutes fo s followin 5% of rate of rated : +/-0.5%	b. line, load llowing p ng power ed Vout. out. of rated	power on			
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming .lout voltage programming (*15) .Jout resistor programming .lout resistor programming (*15)		150V~60 0.01% o 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100%	00V 70PP f rated lo 0V model 00V: Less E OUTPU a, 0~5V or a, 0~5V or a, 0~5/10l a, 0~5/10l	M/oC fro ut over 8 : Less tha than +/ (T) 0~10V, u 0~10V, u (ohm full cohm full	m rated o hrs. inter an +/-0.25 J.15% of user select ser select l scale, us scale, use	table. Acc able. Acc ar selecta	rrent, foll ring 30 m d output put curre curacy and uracy and able. Accu	lowing 30 hinutes w current of http://www.account download linearity uracy and linearity uracy and linearity) minutes arm-up. (over 30 m 0 minute y: +/-0.1 : +/-0.4% I linearity inearity:	warm-up Constant injutes fo s followin 5% of rate of rated : +/-0.5%	b. line, load llowing p ng power ed Vout. out. of rated	power on			
Temperature stability Warm-up drift ANALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Lout voltage programming (*15) Vout resistor programming Lout resistor programming (*15) Soutput voltage monitor		150V~60 0.01% o 10V~100 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or	00V 70PP f rated lo 0V model 00V: Less E OUTPU b, 0~5V or o, 0~5V or o, 0~5/10H 0~10V, u	M/oC fro ut over 8 : Less tha than +/-(T) 0~10V, u Cohm full ser selec	m rated o hrs. inter an +/-0.25 0.15% of user select ser select I scale, use scale, use table. Ac	table. Acc able. Acc er selecta curacy: +/	rrent, foll ring 30 m d output put curre curacy and able. Accu ble. Accu cole. Accu	lowing 30 ninutes w current o nt over 3 nd linearit d linearity uracy and) minutes arm-up. (over 30 m 0 minute (y: +/-0.1 : +/-0.4% I linearity inearity: - out.	warm-up Constant injutes fo s followin 5% of rate of rated : +/-0.5%	b. line, load llowing p ng power ed Vout. out. of rated	power on			
5.Temperature stability 7.Warm-up drift ANALOG PROGRAMMING AND MONITORING (ISOL 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output current monitor (*15)	 	150V~60 0.01% o 10V~100 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or	00V 70PP f rated lo 0V model 00V: Less E OUTPU b, 0~5V or o, 0~5V or o, 0~5/10H 0~10V, u	M/oC fro ut over 8 : Less tha than +/-(T) 0~10V, u Cohm full ser selec	m rated o hrs. inter an +/-0.25 0.15% of user select ser select I scale, use scale, use table. Ac	table. Acc able. Acc er selecta curacy: +/	rrent, foll ring 30 m d output put curre curacy and able. Accu ble. Accu cole. Accu	lowing 30 ninutes w current of nt over 3 d linearity uracy and 1 f rated Vo) minutes arm-up. (over 30 m 0 minute (y: +/-0.1 : +/-0.4% I linearity inearity: - out.	warm-up Constant injutes fo s followin 5% of rate of rated : +/-0.5%	b. line, load llowing p ng power ed Vout. out. of rated	power on			
5.Temperature stability 7. Warm-up drift ANALOG PROGRAMMING AND MONITORING (ISOL 1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 5. Output voltage monitor 5. Output voltage monitor 5. Output current monitor (*15) 5. GIGNALS AND CONTROLS (ISOLATED FROM THE OL	 UTPUT)	150V~60 0.01% o 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100% 0~100% 0~5V or	00V 70PP f rated lo 0V model 90V: Less E OUTPU b 0~5V or , 0~5V or , 0~5/10l 0~10V, u 0~10V, u	M/oC fro ut over 8 : Less that than +/-(T) 0~10V, u 0~10V, u 0~10V, u (ohm full ser select ser select	m rated o hrs. inter an +/-0.25 0.15% of user select ser select l scale, us table. Acc able. Acc	table. Acc rated out table. Acc er selecta curacy: +/-	rrent, foll ring 30 m d output put curre curacy an uracy anc able. Accu ble. Accu cole. Accu cole. Accu cole. Accu	lowing 3C ninutes w a current over 3 ad linearity d linearity uracy and racy and 1 f rated Vo rated lour) minutes arm-up. (over 30 m 0 minute () () () () () () () () () () () () ()	warm-up Constant ninutes fo s followin 5% of rated of rated : +/-0.5% o). line, load llowing p g power ed Vout. out. of rated f rated lo	Vout.	1. 		
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Temperature stability : Warm-up drift WALOG PROGRAMMING AND MONITORING (ISOL .Vout voltage programming .lout voltage programming (*15) .Vout resistor programming (*15) .Output voltage monitor .Output voltage monitor .Output current monitor (*15) .GIGNALS AND CONTROLS (ISOLATED FROM THE OL . Power supply OK #1 signal . CV/CC signal	 UTPUT) 	150V~60 0.01% o 10V~100 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5V or 0~5V or 0~5V or	00V 70PP f rated lo 00 model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5/10l 0~10V, u 0~10V, u upply out Aonitor. C	M/oC fro ut over 8 : Less that than +/-(T) 0~10V, u 0~10V, u 0~10V, u Cohm full cohm full cohm full ser select :put mon open collo	m rated of hrs. inter in +/-0.2; 0,15% of user select ser select scale, use table. Acc able. Acc able. Acc itor. Ope ector. CC	table. Acc able. Acc able. Acc er selectal curacy: +/- uracy: +/- n collector mode: Or	rrent, foll ring 30 m d output put curre curacy an uracy and able. Accu oble.	lowing 3C inutes w. current t int over 3 ad linearity uracy and f rated Vor rated lour t On: On. de: Off. M	0 minutes arm-up. (over 30 m 0 minute y: +/-0.15 : +/-0.4% I linearity inearity: - out. t. Output (aximum 1	warm-uµ Constant injutes fo s followin 5% of rated i: +/-0.5% o +/-0.5% o bff: Off. M voltage: 2	2. line, load llowing p g power ed Vout. out. of rated f rated lo aximum 30V, Maxi	Vout. vout. voltage: mum Sin	1. 30V, Max	t: 10mA.	
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Lout voltage programming (*15) Vout resistor programming (*15) Output voltage monitor Output voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control	 UTPUT) 	150V~60 0.01% o 10V~100 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~	00V 70PP f rated lo 00 model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5V or , 0~5/10l 0~10V, u 0~10V, u upply out Aonitor. C Disable a	M/oC fro ut over 8 : Less that than +/ (T) 0~10V, u 0~10V, u 0~10	m rated of hrs. inter in +/-0.2; 0,15% of user select ser select scale, use table. Acc able. Acc able. Acc itor. Ope ector. CC	table. Acc able. Acc er selectal curacy: +/- n collector mode: Or	rrent, foll ring 30 m d output put curred curacy and able. Accur able. Accur a	lowing 3C inutes w. current t int over 3 ad linearity uracy and f rated Vor rated lour t On: On. de: Off. M trical sigr	0 minutes arm-up. (over 30 m 0 minute y: +/-0.15 : +/-0.4% I linearity: - out. t. Output (aximum ' nal or dry	warm-uµ Constant innutes fo s followin 5% of rated i: +/-0.5% o +/-0.5% o Dff: Off. M Voltage: i contact.	2. line, load llowing p g-power ed Vout. out. of rated lo f rated lo aximum 80V, Maxi Remote:	Vout. vout. ut. Voltage: imum Sin 0~0.6V c	30V, Max k Curren pr short. L	t: 10mA. .ocal: 2~3	30V or op
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Jout voltage programming (*15) Vout resistor programming (*15) Output voltage monitor Output voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal	 UTPUT) 	150V~60 0.01% o 150V~700 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5V or 0~5V or 0~5V or 0	00V 70PP f rated lo 0V model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5/10l 0~10V, u 0~10V, u upply out Aonitor. C Disable a program	M/oC fro ut over 8 : Less than +/ f than +/ f T) 0~10V, u 0~10V, u Cohm full cohm full	m rated c hrs. inter n +/-0.25 .15% of user select ser select l scale, us table. Acc able. Acc able. Acc itor. Ope ector. CC ogrammi trol moni	table. Acc able. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or ng contro tor signa	rrent, foll ring 30 m d output put curre curacy and racy	lowing 3C inutes w current t nt-over 3 id linearity uracy and racy and 1 f rated Vo rated loui t On: On. de: Off. M trical sign ollector. I) minutes arm-up. (over 30 m 0-minute y: +/-0.1! : +/-0.4% I linearity inearity: - out. t. Output C aximum Remote: (warm-uµ Constant injutes fc s-followin 5% of rated of rated l : +/-0.5% o +/-0.5% o Off: Off. M Voltage: : contact. Dn. Local). line, load llowing p gepower ed Vout. out. of rated f rated lo aximum 30V, Maxi Remote: Off. Max	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vo	30V, Max 30V, Max ak Curren or short. L bltage: 30	t: 10mA. .ocal: 2~3)V, Maxin	30V or op
Temperature stability Warm-up drift INALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Jout voltage programming (*15) Vout resistor programming (*15) Jout resistor programming (*15) Output voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog sontrol . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal	 UTPUT) 	150V~60 0.01% o 150V~60 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5V or 0~5V or Enable/I analog J Enable/I	00V 70PP f rated lo 0V model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5V or , 0~5/10k 0~10V, u 0~10V, u upply out donitor. C Disable a program Disable P	M/oC fro ut over 8 : Less that than +/ f T) 0~10V, u 0~10V, u 0~10	m rated of hrs. inter n +/-0.25 .15% of user select ser select scale, us table. Acc able. Acc able. Acc itor. Ope ector. CC ogrammi trol moni by electi	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or tor signa ical signa	rrent, foll ring 30 m d output put curre curacy and able. Accu able. Accu abl	lowing 30 hinutes we current en to dinearitit dinearity uracy and f rated Vor rated loui t On: On. de: Off. M trical sign ollector. I contact. 0	o minutes arm-up. (over 30 m 0 minute y: +/-0.1! : +/-0.4% I linearity: inearity: out. t. Output C aximum nal or dry Remote: (~0.6V or	warm-uµ Constant inutes fc s followin 5% of rated of rated l : +/-0.5% o +/-0.5% o bff: Off. M /oltage: : contact. Dn. Local short, 2~). line, load llowing p g power ed Vout. out. of rated f rated lo aximum a0V, Maxi Remote: Off. Max 30V or op	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vc	30V, Max 30V, Max ak Curren or short. L bltage: 30 r selectab	t: 10mA. .ocal: 2~3)V, Maxin ole logic.	30V or op
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL .Vout voltage programming .lout voltage programming (*15) .Vout resistor programming (*15) .Output voltage monitor .Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU .Power supply OK #1 signal .CV/CC signal .LOCAL/REMOTE Analog sontrol .LOCAL/REMOTE Analog signal .ENABLE/DISABLE signal .INTERLOCK (ILC) control	UTPUT) UTPUT) 	150V~60 0.01% o 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5V or CV/CC M Enable/I analog p Enable/I Enable/I	000 70PP f rated lo 0V model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5/10P 0~10V, u 0~10V, u 0~10V, u 0~10V, u 0~10V, u 00000, 00000, 0000, 000000	M/oC fro ut over 8 : Less that than 1/(than 1/(0~10V, u 0~10V, u	m rated d hrs. inter m +/-0.25 .15% of user select ser select ser select scale, us scale, us table. Acc able. Acc able. Acc cogrammi trol moni by electr	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or ng contro tor signa ical signa ical signa	rrent, foll ring 30 m d output put currer uracy and bble. Accu lobe. Accu lob	lowing 30 inutes w current over 3 ad lineariti d lineariti d linearity uracy and 1 f rated Voc rated lour t On: On. de: Off. M trical sign ollector. I oontact. R	o minutes arm-up. 6 over 30 m 0 minute 0 minute 1 mearity: 	warm-up Constant injutes fc s followin 5% of rated of rated : +/-0.5% of +/-0.5% of 	line, load lilowing p g power ed Vout. out. of rated f rated lo f rated lo f rated lo g Naxi Remote: Off. Maxi 30V or og short. Loo	Vout. voltage: mum Sin 0~0.6V c simum Vc pen. User cal: 2~30°	30V, Max 30V, Max Ik Curren or short. I oltage: 3 r selectab V or oper	t: 10mA. Local: 2~3 DV, Maxin ble logic. n.	30V or op num Sink
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Jout voltage programming (*15) Vout resistor programming (*15) Joutput voltage monitor Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal .CV/CC signal LOCAL/REMOTE Analog control .LOCAL/REMOTE Analog signal ENABLE/DISABLE signal .INTERLOCK (ILC) control .Programmed signals	 UTPUT) 	150V~60 0.01% o 10V~100 150V~60 150V~60 0~100% 0~100% 0~100% 0~25V or 0~5V or 0~5V or 0~5V or CV/CC M Enable/I Enable/I Two ope	000 70PP f rated lo 00 model 00 + Less E OUTPU , 0~5V or , 0~5V or , 0~5/10k 0~10V, u 0~10V, u 0~10V, u 0~10V, u 0~10V, u 0~10V, u 10 sable a program Disable P Disable P en drain p	M/oC fro ut over 8 : Less that than 1/-(than 1/-(than 1/-(to -10V, u cohm full cohm	m rated of hrs. inter an +/-0.25 .15% of user select scale, use table. Acc able. Acc able. Acc bitor. Ope ector. CC ogrammi trol moni by electt by electr nable sig	table. Acc able. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or ng contro tor signa ical signa ical signa nals. Max	rrent, foll ring 30 m d output put currer curacy and bble. Accur cole. Accur c	lowing 30 initutes was courrent to current to int over 3 and linearity uracy and racy and linearity uracy and f rated Vor racy and linearity uracy and f rated loui t On: On. de: Off. M trical sign ollector. I contact. 0 ontact. R ltage 25V	o minutes arm-up. (over 30 m 0 minute 0 minute 1 marrity: : +/-0.1! : +/-0.4% linearity: -out. t. Output C aximum hal or dry Remote: (0 ~0.6V or emote: 0 ', Maximu	warm-uµ Constant injutes fc 5% of rated 5% of rated 1: +/-0.5% of +/-0.5% of +/-0.5% of +/-0.5% of the bff: Off. M Voltage: 3 contact. Dn. Local short, 2~ ~0.6V or s im sink c). line, load lilowing p g power ed Vout. out. of rated f rated lo f rated lo f rated lo f rated lo g v v Maxi Remote: Off. Max 30V or op short. Loo urrent 10	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vc pen. User cal: 2~30' 0mA (Shi	a. 30V, Max 30V, Max 40 Curren or short. L bltage: 30 r selectab V or oper unted by	t: 10mA. _ocal: 2~: 0V, Maxin ble logic. n. 27V zene	30V or op num Sink er)
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Temperature stability Warm-up drift INALOG PROGRAMMING AND MONITORING (ISOL .Vout voltage programming .lout voltage programming (*15) .Vout resistor programming (*15) .Output voltage monitor .Output voltage monitor .Output voltage monitor .Output current monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OL . Power supply OK #1 signal . CV/CC signal . LOCAL/REMOTE Analog control . LOCAL/REMOTE Analog signal . ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals	UTPUT) -	150V~60 0.01% of 10V~100 10V~100 150V~60 150V~60 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5V or Power si CV/CC M Enable/I Enable/I Two ope Maximu edge tria	000 70PP frated lo 00V model 00V tess E OUTPU , 0~5V or , 0~10V, u Disable P Disable P Disable P en drain p m low lev gger: tw=	M/oC fro ut over 8 : Less that than t/(T) 0~10V, u 0~10V, u 0~10V	m rated d hrs. inter an +/-0.25 .15% of user select ser select scale, us scale, us table. Acc able. Acc able. Acc ogrammi trol moni by electr by electr nable sig voltage = nimum. T	table. Acc arted out table. Acc ar selectal curacy: +/ uracy: +/- n collecto mode: Or ng contro tor signa ical signa ical signa anals. Max = 0.8V,Min r,Tf=1us 1	rrent, foll ring 30 m d output put curre put curre ble. Accu ble. Accu co.5%. Of r. Outpu h. CV moo l by elec . Open c l or dry c imum ho Aaximum	lowing 30 initutes was courrent to current to int over 3 and linearity uracy and racy and linearity uracy and f rated Vor racy and linearity uracy and f rated loui t On: On. de: Off. M trical sign ollector. I contact. 0 ontact. R ltage 25V	o minutes arm-up. 6 o minutes o minutes y: +/-0.11 : +/-0.4% I linearity: inearity: inearity: but. t. Output C aximum al or dry Remote: 0 ~0.6V or ~0.6V or emote: 0 ', Maximu input vol	warm-uµ Constant injutes fc 5 followii 5 followii 5 followii 1 +/-0.5% o +/-0.5% o -/-0.5% o -/	2. line, load llowing I ig power d Vout. out. of rated lo f rated lo f rated lo aximum 80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10 5V, Maxir	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vc pen. User cal: 2~30' 0mA (Shi	a. 30V, Max 30V, Max 40 Curren or short. L bltage: 30 r selectab V or oper unted by	t: 10mA. _ocal: 2~: 0V, Maxin ble logic. n. 27V zene	30V or op num Sink er)
Temperature stability Warm-up drift NALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming Jout voltage programming (*15) Vout resistor programming (*15) Jout resistor programming (*15) Output current monitor (*15) GINALS AND CONTROLS (ISOLATED FROM THE OU Power supply OK #1 signal . CV/CC signal LOCAL/REMOTE Analog sontrol . LOCAL/REMOTE Analog signal ENABLE/DISABLE signal . INTERLOCK (ILC) control . Programmed signals . TRIGGER IN / TRIGGER OUT signals . DAISY_IN/SO control signal	 UTPUT) 	150V~60 0.01% o 10V~100 150V~60 0~100% 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0~5	000 70PP f rated lo 00V modele 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5710H 0~10V, u 0~10V, u 0~10V	M/oC fro ut over 8 than +/ (T) 0~10V, u 0~10V,	m rated d hrs. inter m +/c0.250.15% of user select scale, us scale, us scale, us table. Acc able. Acc able. Acc able. Acc by electr mable sig voltage = nimum. T 60V/2~300	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or mog contro tor signa ical signa nals. Max = 0.8V,Min r,Tf=Tus for	rrent, foll ring 30 m d output put curre put curre ble. Accu ble. Accu co.5%. Of r. Outpu h. CV moo l by elec . Open c l or dry c imum ho Aaximum	lowing 30 initutes w. c current, c int over 3 ind linearity uracy and f rated Vc rated loui t On: On. de: Off. M trical sign ollector. I contact. R ltage 25V igh level	o minutes arm-up. 6 o minutes o minutes y: +/-0.11 : +/-0.4% I linearity: inearity: inearity: but. t. Output C aximum al or dry Remote: 0 ~0.6V or ~0.6V or emote: 0 ', Maximu input vol	warm-uµ Constant injutes fc 5 followii 5 followii 5 followii 1 +/-0.5% o +/-0.5% o -/-0.5% o -/	2. line, load llowing I ig power d Vout. out. of rated lo f rated lo f rated lo aximum 80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10 5V, Maxir	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vo pen. User cal: 2~30' 0mA (Shi	a. 30V, Max 30V, Max 40 Curren or short. L bltage: 30 r selectab V or oper unted by	t: 10mA. _ocal: 2~: 0V, Maxin ble logic. n. 27V zene	30V or op num Sink er)
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.Temperature stability .Warm-up drift .Warm-up drift .Vout voltage programming .lout voltage programming (*15) .Vout resistor programming (*15) .Vout resistor programming (*15) .Output voltage monitor .Output voltage monitor (*15) IGNALS AND CONTROLS (ISOLATED FROM THE OU .Power supply OK #1 signal .CV/CC signal .LOCAL/REMOTE Analog control .LOCAL/REMOTE Analog control .LOCAL/REMOTE Analog signal .ENABLE/DISABLE signal .INTERLOCK (ILC) control .Programmed signals .TRIGGER IN / TRIGGER OUT signals .DAISY_IN/SO control signal 0.DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES	 UTPUT) -	150V~60 0.01% of 10V~100 10V~100 0~100% 0~100% 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or	000 70PP f rated lo 00V model 00V: Less E OUTPU , 0~5V or , 0~5V or , 0~5V or , 0~5/10l 0~10V, u 0~10V, u upply out Aonitor. C Disable a orogram Disable P PDisable P en drain p m low le gger: tw= gger: tw= trical Volta	M/oC fro ut over 8 : Less that than +/(T) 0~10V, u 0~10V, u 0~10V	m rated d hrs. inter an +/-0.25 .15% of user select ser select scale, us table. Acc able. Acc able. Acc able. Acc able. Acc grammi trol moni by electr nable sig voltage nimm. T 6V/2~300 pedance	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or ng contro tor signa ical signa nals. Max = 0.8V,Min r,Tf=Tus t r or dry cc =Fall	rrent, foll ring 30 m d output but curre curacy and uracy and constant of the curacy and curacy a	lowing 30 initutes w. c. current, c. int over 3 ind linearity uracy and racy and I f rated Vor rated loui t On: On. de: Off. M trical sign ollector. I contact. 0 ontact. R ltage 25V igh level n, Min del	o minutes arm-up. 6 o minutes o minutes y: +/-0.11 : +/-0.4% I linearity: inearity: inearity: but. but. c. Output C aximum 'n al or dry Remote: 0 ', Maximu input vol ay betwee	warm-uµ Constant injutes fc 5 followii 5 followii 5 followii 1 +/-0.5% 6 +/-0.5% o -0.5% o -0.5% o -0.5% o -0.6V or 1 m sink c tage = 2. en 2 puls	2. line, load llowing p g power d Vout. out. of rated lo f rated lo f rated lo aximum 80V, Maxi Remote: Off. Maxi 30V or op short. Loo urrent 10 5V, Maxir es 1ms.	Vout. ut. Voltage: imum Sin 0~0.6V c cimum Vc pen. User cal: 2~30' 0mA (Shi	a. 30V, Max 30V, Max 40 Curren or short. L bltage: 30 r selectab V or oper unted by	t: 10mA. _ocal: 2~: 0V, Maxin ble logic. n. 27V zene	30V or op num Sink er)
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	 -	150V~60 0.01% of 10V~100 10V~100 0~100% 0~100% 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or	000 70PP f rated lo 000 W model	M/oC fro ut over 8 : Less that : Less that : Han +/-(T) 0~10V, u 0~10V, u 1~10V, u 1~1	m rated d hrs. inter an +/-0.25 .15% off iser select ser select iscale, us table. Acc able. Acc able. Acc able. Acc able. Acc able. Acc able. Acc able. Acc able. Acc or able. Acc able. Acc or able. Acc by electr mable sig voltage = itor. Ope ector. CC ogrammi trol moni by electr mable sig voltage = itor. Acc able.	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or mode: Or for dry co =Fail P units. F n Daisy cl grammed to ce range to tall so soanel. or or dry co	rrent, foll ring 30 m d output put curred out curred put curred pole. Accurred pole. Accurred of a curred r. Output n. CV moo l by elec l. Open cc l or dry c l or dry c l or dry c l or dry c mum vo himum hi Maximum pontact. or more hain to sy value. Pr i 1~1000 lew rate.	lowing 3C initiates w. initiates w. icurrent i d linearity uracy and racy and linearity uracy and racy racy and linearity uracy and linearity uracy and linearity aracy and linearity racy and linearity in frated VC rated loui t On: On, de: Off. M trical sign location from ontact. R litage 25V igh level n, Min del mo. Prog Program rcells, Ac	o minutes arm-up. (gyer 30 m o minute : +/-0.15 : +/-0.4% Il linearity inearity: 	warm-up Constant injutes for s followin i +/-0.5% of s followin i +/-0.5% of contact. Dr. Local short, 2~ -0.6% of s im sink ci tage = 2. en 2 puls iult with l irn-on an e commu g via the c ge: 0.000	2. Jine, load Jilowing power ag power out. of rated f rated lo rated lo aximum ' 80V, Maxi Remote: 00V, Maxi Remote: 00V, Maxi Remote: 00V, Maxi Remote: 10 5V, Maxi res 1ms. 	Vout. Vout. ut. Voltage: mum Sin 0~0.6V c cimum Vc pen. User cal: 2~30 0mA (Shi num higi f. ports or ication p. 9 V/mSec 	a. 30V, Max k Curren or short. I bltage: 30 r selectat V or oper unted by h level in the front orts or th . or A/mS unication	t: 10mA. .ocal: 2~: VV, Maxin ble logic. 1: 27V zene put = 5V t panel. e front p fec. Progr	30V or op num Sink er) positive anel. ramming
Temperature stability Warm-up drift Warm-up	 -	150V~60 0.01% o 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or	000 70PP f rated lo 00V model 90V model	M/oC fro ut over 8 than +/o T) 0~10V, u 0~10V, u	m rated d hrs. inter m +/-0.22 0.15% of iser select scale, us scale, us scale, us table. Acc able. Acc abl	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or mode: Or for dry co =Fail P units. F n Daisy cl grammed to ce range to tall so soanel. or or dry co	rrent, foll ring 30 m d output put curred out curred put curred pole. Accurred pole. Accurred of a curred r. Output n. CV moo l by elec l. Open cc l or dry c l or dry c l or dry c l or dry c mum vo himum hi Maximum pontact. or more hain to sy value. Pr i 1~1000 lew rate.	lowing 3C initiates w. initiates w. icurrent i d linearity uracy and racy and linearity uracy and racy racy and linearity uracy and linearity uracy and linearity aracy and linearity racy and linearity in frated VC rated loui t On: On, de: Off. M trical sign location from ontact. R litage 25V igh level n, Min del mo. Prog Program rcells, Ac	o minutes arm-up. (gyer 30 m o minute : +/-0.15 : +/-0.4% Il linearity inearity: 	warm-up Constant injutes for s followin i +/-0.5% of s followin i +/-0.5% of contact. Dr. Local short, 2~ -0.6% of s im sink ci tage = 2. en 2 puls iult with l irn-on an e commu g via the c ge: 0.000	2. Jine, load Jiowing power ag power out. of rated f rated lo rated lo aximum ' 80V, Maxi Remote: 00V, Maxi Remote: 00V, Maxi Remote: 00V, Maxi Remote: 00V, Maxi Remote: 10 5V, Maxi res 1ms. 	Vout. voltage: mum Sin 0~0.6V c cimum Vc pen. User cal: 2~30 0mA (Shi num higi f. ports or ication p. 9 V/mSec here comm	a. 30V, Max k Curren or short. I bltage: 30 r selectat V or oper unted by h level in the front orts or th . or A/mS unication	t: 10mA. .ocal: 2~: VV, Maxin ble logic. 1: 27V zene put = 5V t panel. e front p fec. Progr	30V or op num Sink er) positive anel. ramming
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5. Temperature stability 7. Warm-up drift ANALOG PROGRAMMING AND MONITORING (ISOL Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 3. Vout resistor programming (*15) 5. Output voltage monitor 5. Output voltage monitor 5. Output voltage monitor 5. Output voltage monitor 6. Output current monitor (*15) 5. ISIGNALS AND CONTROLS (ISOLATED FROM THE OL Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. LOCAL/REMOTE Analog signal 5. INTERLOCK (ILC) control 7. Programmed signal 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES 1. Parallel operation 1. Daisy chain 4. Constant power control 5. Output resistance control 5. Slew rate control 7. Arbitrary waveforms 7. ROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*15) 2. Output regramming resolution 4. Jour programming resolution 4. Jour	 -	150V~60 0.01% of 10V~100 150V~60 ROM THI 0~100% 0~100% 0~100% 0~100% 0~100% 0~5V or 0~5V or 0.03% of 0.002% of 0.05% o 0.02% of 0.05% o	000 70PP f rated lo 00V model 00V model 00V stess E OUTPU , 0~5V or , 0~5V o	M/oC fro ut over 8 than +/c than +/c T) 0~10V, u 0~10V, u 0~	m rated d hrs. inter m +/-0.25 3.15% off scale, us scale, us table. Acc able. Acc able. Acc able. Acc able. Acc by electr mable sig voltage for a proge entical GS mected i o a proge to a progetto a	table. Acc able. Acc able. Acc er selectal curacy: +/- n collector mode: Or mode: Or for dry co =Fail P units. F n Daisy cl grammed to ce range to tall so soanel. or or dry co	rrent, foll ing 30 m d output put currecy and output curacy and doutput curacy and pole. Accur- ole.	lowing 3C initiates w. initiates w. icurrent i d linearity uracy and racy and linearity uracy and racy racy and linearity uracy and linearity uracy and linearity aracy and linearity racy and linearity in frated VC rated loui t On: On, de: Off. M trical sign location from ontact. R litage 25V igh level n, Min del mo. Prog Program rcells, Ac	arm-up. 6 arm-up. 6 over 30 m o minutes y: +/-0.19 : +/-0.4% I linearity inearity: - out. t. Output C aximum ' hal or dry Remote: 0 ', Maximu input vol ay betwee ease cons te their tu ing via th raming ran tivation E 100	warm-up Constant injutes for s followin 5% of rated of rated : +/-0.5% of +/-0.5% of voltage: contact. Dn. Local short, 2~ ~0.6V or s -0.6V or	2. line, load lilowing power ag power out. of rated f rated lo rated lo aximum 30V, Maxi Remote: 0ff, Maxi 30V or op short. Loc urrent 10 5V, Maxin res 1ms. Factory. d turn-of nnication communi 1~999.95 and via th 200	Vout. Vout. vut. Voltage: imum Sin 0~0.6V c imum Nin 0~0.6V c imum Nin pen. Usee cal: 2~30' 0mA (Shi num high f. ports or ication pe 0 VmSec ne comm 300	30V, Max ak Curren or short. L Iltage: 30 r selectat V or oper unted by h level in the front orts or th . or A/ms 400	t: 10mA. .ocal: 2~: VV, Maxin ble logic. 1: 27V zene put = 5V t panel. e front p fec. Progr	anel. ramming r by the fi 600



GENESYS[™] GSP15kW SERIES SPECIFICATIONS

OUTPUT RATING	GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1)	V	10 1500	20750	30	40 37 3	50 500	60	80	100 100	150 102	20075	300	400	500 50	600
2.Rated output current (*2)	A	1500 (*3)		510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
NPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 2 3-Phase, 4 3-Phase, 4	100V mo	dels: 342 [,]	~460Vac,	47~63Hz	(Covers 3	380/400/4	415Vac)	/460/480	Vac)				
3-Phase, 200V mod	els:	52.5A @ 2	200Vac												
2. Maximum Input current at 100% load 3-Phase, 400V mode 3-Phase, 480V mode	els:	27.6A @ 3 27.6A @ 3	80Vac												
B.Power Factor (Typ) I.Efficiency (Typ) (*5) (*22)		0.94 @ 20				1									
5.Inrush current (*6)	% A	89 (*21) Less than		91	91	91	91	91	91	91	91	92	92	91	92
AC line phase imbalance	%	< 5%	150/1												
ONSTANT VOLTAGE MODE	V														
.Max. Line regulation (*7)		10	20	30	40	50	60	80	100	150	200	300	400	500	600
Max. Load regulation (*8)		0.01% of													
Ripple and noise (p-p, 20MHz) (*9)	mV	0.01% of			age +5m\		75			120	200	200	400	450	400
I.Ripple r.m.s. 5Hz~1MHz (*9)	m∨	75 75 12 8	75 10	75		75 12	75 12	80 15	90 15	120 20	200 45	200 60	400 80	450 80	480
5.Temperature coefficient		12 8 50PPM/°C			t voltage					20	45	00	00	00	100
5.Temperature stability	PPINI/*C	0.01% of								Constant	line load	& temp			
7. Warm-up drift		Less than					-					. s comp.			
3.Remote sense compensation/wire (*10)	v	5 2	2	5	5	5	5	5	5	5	5	5	5	5	Τ
10.Down-prog.response time (*11) 10.Down-prog.response time:	mS	10030	30	30	30	50	50	50	50	50	50	50	100	100	1
Full load (*11)	mS	20050	50	80	80	80	80	100	100	100	100	100	150	200	
No load (*12)	mS	3003000	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	
11.Transient response time	mS	Time for a	output vo	oltage to	recover v	vithin 0.5	% of its ra	ated outr	out for a l	oad chan	ige 10~90	0% of rate	ed outpu	it current	. Output s
		10~100%		-							-				
2Start up delay	Sec	Less than				.,	up t			2	,				
	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
I.Max. Line regulation (*7)		0.05% of													
2.Max. Load regulation (*13)		0.08% of		-	1										
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz.	(*14 jmA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MH	Z. (TANAS°) 1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5.Temperature coefficient 5.Temperature stability	PPIVI/30	10V~100) minutes						
7. Warm-up drift		150V~60										10+			
· · · · · · · · · · · · · · · · · · ·		0.01% of													
		10V~100 150V~60	V: Less t	than +/-0	.15% of r	ated outp	ut curre	nt over 3	0 minute	s followir	nowing power	on.			
ANALOG PROGRAMMING AND MONITORING (ISC	DLATED F			-											
I.Vout voltage programming		0~100%,													
2.lout voltage programming (*15)		0~100%,													
3.Vout resistor programming		0~100%,													
		U~100%	u~5/10K0	onm tull s		i selectab		acy and li	inearity: +	F/-U.5% 0	rated lo	ut.			
4.lout resistor programming (*15)			101/	or color											
4.lout resistor programming (*15) 5.Output voltage monitor (*23)		0~5V or 0					0.5% of	rated Vou							
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23)							0.5% of	rated Vou							
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) 5.GNALS AND CONTROLS (ISOLATED FROM THE 6		0~5V or 0					0.5% of	rated Vou							
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal	 OUTPUT) 	0~5V or 0 0~5V or 0 Power su	~10V, us	er selecta put moni	ible. Accu tor. Open	racy: +/-(0.5% of 1	ated Vou ated lout	Output O						nk Current
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE of 1. Power supply OK #1 signal 2. CV/CC signal	OUTPUT)	0~5V or 0 0~5V or 0 Power su CV/CC Mo	~10V, us pply out _l onitor. O	er selecta put moni pen colle	ible. Accu tor. Open ctor. CC r	racy: +/-(collecto node: On	0.5% of r 0.5%. of r r. Output . CV mod	ated Vou ated lout : On: On. le: Off. Ma	Output O aximum \	/oltage: 3	30V, Maxi	imum Sin	k Curren	t: 10mA.	
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	OUTPUT)	0~5V or 0 0~5V or 0 Power su CV/CC Mo Enable/D	~10V, us pply out onitor. O isable ar	er selecta put moni pen colle nalog pro	ible. Accu tor. Open ctor. CC r grammin	iracy: +/-(collecto node: On ig contro	0.5% of r 0.5%. of r r. Output . CV mod	ated Vou ated lout : On: On. le: Off. Ma rrical sign	Output O aximum \ al or dry	/oltage: 3 contact.	30V, Maxi Remote:	imum Sin 0~0.6V c	ik Curren or short. I	it: 10mA. Local: 2~	30V or op
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	OUTPUT)	0~5V or 0 0~5V or 0 Power su CV/CC Mo Enable/D analog pr	~10V, us pply out onitor. O isable ar rogramm	er selecta put moni pen colle nalog pro ning cont	tor. Open ctor. CC r grammin rol monit	racy: +/-(collecto node: On g contro or signal	0.5% of 1 0.5%. of r r. Output . CV mod l by elect . Open co	c On: On. e: Off. Ma rical sign	Output O aximum \ al or dry Remote: C	/oltage: 3 contact. Dn. Local:	30V, Maxi Remote: : Off. Max	imum Sin 0~0.6V c cimum Vc	ik Curren or short. I oltage: 30	it: 10mA. Local: 2~ DV, Maxir	30V or ope num Sink
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Llout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE 6 9. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 5. INTERLOCK (ILC) control	OUTPUT)	0~5V or 0 0~5V or 0 Power su CV/CC Ma Enable/D analog pr Enable/D Enable/D	~10V, us pply outj onitor. Oj isable ar rogramm isable PS isable PS	er selecta put moni pen colle nalog pro ning cont i output l	tor. Open ctor. CC r grammin rol monit by electric	n collecto node: On g contro cor signal cal signal	0.5% of r 0.5%. of r r. Output . CV mod l by elect Open cc or dry cc or dry cc	On: On. e: Off. Ma rical sign ollector. F ontact. 0/	Output O aximum \ al or dry Remote: C ~0.6V or s emote: 0~	/oltage: 3 contact. Dn. Local: short, 2~ ~0.6V or s	80V, Maxi Remote: Off. Max 30V or op short. Loo	imum Sin 0~0.6V c kimum Vc pen. User cal: 2~30	ik Curren or short. I oltage: 30 selectat V or opei	it: 10mA. Local: 2~ DV, Maxir ble logic. n.	30V or open num Sink
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4.lout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) 5.GURALS AND CONTROLS (ISOLATED FROM THE (). Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 5. INTERLOCK (ILC) control 7. Programmed signals	OUTPUT)	0~5V or 0 0~5V or 0 Power su CV/CC Mc Enable/D analog pr Enable/D Two oper	~10V, us pply out isable an ogramm isable PS isable PS	er selecta put moni pen colle nalog pro ning cont output l output l rogramm	tor. Open ctor. CC r grammin rol monit by electric able sign	n collecto mode: On og contro or signal cal signal cal signal nals. Maxi	0.5% of r 0.5% of r r. Output . CV mod l by elect Open cc or dry cc or dry cc mum vol	c On: On. ic On: On. ic Off. Ma rical sign ollector. F ontact. 0 ontact. Re tage 25V	Output O aximum \ aal or dry Remote: C ~0.6V or s emote: 0~ , Maximu	/oltage: 3 contact. Dn. Local: short, 2~ ~0.6V or s m sink cu	80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10	imum Sin 0~0.6V c kimum Vc pen. User cal: 2~30 0mA (Shi	ik Curren or short. I oltage: 30 selectab V or opei unted by	t: 10mA. Local: 2~ DV, Maxir Dele logic. n. 27V zen	30V or open num Sink
4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23) 5.Output current monitor (*15) (*23) 5.IGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	OUTPUT)	0~5V or C 0~5V or 0 Power su CV/CC Mc Enable/D Enable/D Enable/D Two oper Maximun tw=10us	~10V, us pply outp nitor. Op isable ar rogramm isable PS isable PS n drain p n low lev minimur	er selecta put moni pen colle halog pro hing cont i output l i output l rogramm el input v n. Tr,Tf=1	ble. Accu tor. Open ctor. CC r grammin rol monit by electri- able sign voltage = us Maxim	a collecto node: On og contro or signal cal signal cal signal aals. Maxi 0.8V,Min num, Min	0.5% of r 0.5% of r	c On: On. c On: On. c Off. Ma rical sign bllector. F pontact. 00 pontact. Re tage 25V gh level i	Output O aximum \ aal or dry Remote: C ~0.6V or s emote: 0~ , Maximu nput volt	/oltage: 3 contact. On. Local: short, 2~ ~0.6V or s m sink cu :age = 2.5	80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10	imum Sin 0~0.6V c kimum Vc pen. User cal: 2~30 0mA (Shi	ik Curren or short. I oltage: 30 selectab V or opei unted by	t: 10mA. Local: 2~ DV, Maxir Dele logic. n. 27V zen	30V or ope num Sink er)
Llout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) IGNALS AND CONTROLS (ISOLATED FROM THE (9. Power supply OK #1 signal 2. CV/CC signal 5. LOCAL/REMOTE Analog control 6. LOCAL/REMOTE Analog signal 5. LOCAL/REMOTE Analog signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	OUTPUT)	0~5V or C 0~5V or 0 Power su CV/CC Mu Enable/D analog pr Enable/D Two oper Maximun tw=10us By electri	~10V, us pply outp onitor. Op isable an rogramm isable PS isable PS n drain p n low lev minimur cal Volta	er selecta put moni pen colle halog pro ning cont 6 output l 6 output l rogramm el input v n. Tr,Tf=1 ge: 0~0.6	tor. Open ctor. CC r grammin rol monit oy electri- oy electri- able sign voltage = us Maxim V/2~30V	a collecto node: On og contro or signal cal signal cal signal nals. Maxi 0.8V, Min num, Min or dry co	0.5% of r 0.5% of r	c On: On. c On: On. c Off. Ma rical sign bllector. F pontact. 00 pontact. Re tage 25V gh level i	Output O aximum \ aal or dry Remote: C ~0.6V or s emote: 0~ , Maximu nput volt	/oltage: 3 contact. On. Local: short, 2~ ~0.6V or s m sink cu :age = 2.5	80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10	imum Sin 0~0.6V c kimum Vc pen. User cal: 2~30 0mA (Shi	ik Curren or short. I oltage: 30 selectab V or opei unted by	t: 10mA. Local: 2~ DV, Maxir Dele logic. n. 27V zen	30V or ope num Sink er)
Llout resistor programming (*15) S.Output voltage monitor (*23) S.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE (. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	OUTPUT)	0~5V or C 0~5V or 0 Power su CV/CC Mc Enable/D Enable/D Enable/D Two oper Maximun tw=10us	~10V, us pply outp onitor. Op isable an rogramm isable PS isable PS n drain p n low lev minimur cal Volta	er selecta put moni pen colle halog pro ning cont 6 output l 6 output l rogramm el input v n. Tr,Tf=1 ge: 0~0.6	tor. Open ctor. CC r grammin rol monit oy electri- oy electri- able sign voltage = us Maxim V/2~30V	a collecto node: On og contro or signal cal signal cal signal nals. Maxi 0.8V, Min num, Min or dry co	0.5% of r 0.5% of r	c On: On. c On: On. c Off. Ma rical sign bllector. F pontact. 00 pontact. Re tage 25V gh level i	Output O aximum \ aal or dry Remote: C ~0.6V or s emote: 0~ , Maximu nput volt	/oltage: 3 contact. On. Local: short, 2~ ~0.6V or s m sink cu :age = 2.5	80V, Maxi Remote: Off. Max 30V or op short. Loo urrent 10	imum Sin 0~0.6V c kimum Vc pen. User cal: 2~30 0mA (Shi	ik Curren or short. I oltage: 30 selectab V or opei unted by	t: 10mA. Local: 2~ DV, Maxir Dele logic. n. 27V zen	30V or ope num Sink er)
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4.lout resistor programming (*15) 5.Output voltage monitor (*23) 5.Output current monitor (*15) (*23) SIGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 5. ENABLE/DISABLE Signal 5. INTERLOCK (ILC) control 7. Programmed signals 3. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 5. Slew rate control 5. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Yout programming accuracy (*16) 2. Jout programming resolution 4. Jout programming resolution		0~5V or C 0~5V or O CV/CC Mc Enable/D Enable/D Enable/D Enable/D Enable/D Enable/D Enable/D Enable/D Enable/D Enable/D Power su Limits the Emulates Program commun Profiles o 0.05% of 0.3% of rz 0.002% o 0.002% o 0.002% o	~10V, us pply outp onitor. O isable ar ogramm isable PS isable PS	er selecta put moni pen colle halog pro ing cont is output l soutput l soutput l soutput l soutput l soutput l soutput l rogramm el input v n. Tr,Tf=1 ger. 0~0.6 hohm imp ger. 0~0.6 hohm imp ory n be con power to sistance. utput rise oorts or tH 00 steps 30 tput volt but currer utput vol tput volt tput vol tput vol tput vol tput vol tput vol tput vol tput vol tput vol tput vol	tor. Open ctor. CC r grammin rol moniti by electri- able sign roltage = us MaxIm V/2~30V redance)= ntical GSF nected in a progg Resistanc and Out ef ront p can be sto 40 age rent tage rent age it	a collecto mode: On or signal cal si signal cal signal cal signal cal signal cal signal	0.5% of 1 0.5% of r. 0.5% of r. 0.5% of r. 0.5% of r. 0.5% of r. 0.5% of r. 1. V mod 1. Sy each of the second sec	cells. Act	Output O aximum V aal or dry leanote: O- .0.6V or s ermote: O- , Maximu nput volt pulses 1n ease cons e their tu ng via th ramming ming range ivation b 100	Voltage: 3 contact. On. Local: Short, 2~~ -0.6V or s m sink cu age = 2.5 ns. ult with I rn-on an- e commu via the c ge: 0.000 y-comma 150	30V, Maxi Remote: c Off. Max 30V or op short. Loc urrent 10 5V, Maxin Factory. d turn-of unication communi 1~999.95 and via th 200	inum Sin 0~0.6V c cimum Vc oen. User cal: 2~30' 0mA (Shi num high f. ports or ication pi 0 V/mSec ne comm 300	k Curren or short. L bltage: 30 selectab V or oper unted by h level in the front orts or th . or A/ms unication 400	t: 10mA. Local: 2~ DV, Maxir Jole logic. n. 27V zen. put = 5V t panel. t panel. t panel. e front p Sec. Prog n ports o 500	30V or op num Sink er) positive e panel. ramming r by the fre



GENESYS[™] GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	3	00	400	500	600
1.Foldback protection																	t to CV mode. by communicatio
2.Over-voltage protection (O	VP)		Output sh	ut-dow	n. Reset	by AC ing	out recyc	le in auto	start mo	de, by O	UTPUT b	utton, b	y rear i	oanel o	or by cor	nmunica	tion.
3.Over -voltage programming		V	0.5~12														
4. Over-voltage programming			+/-1% of r														
5.Output under voltage limit			Prevents f	rom ad	usting V	out belov	w limit. D	oes not a	apply in a	inalog p	rogramm	ning. Pre	set by	front p	anel or	commun	ication port.
5.Over temperature protection 7. Output under voltage limit			Shuts dov					utostart r	node.								
			Prevents a	-													
8. Output under voltage prot	ection (UVP)		Prevents a mode, by	-				•		9		5	nditior	n. Rese	t by AC i	nput recy	cle in autostart
RONT PANEL																	
1.Control functions			Multiple c	ptions	with 2 Er	ncoders											
.control runctions		-	Vout/lout				ust										
			OVP/UVL/														
		-	Protection								a				,		
			Communi Output Ol				ion of LA	N,IEEE,RS	232,8548	35,USB o	r Optiona	al comm	iunicat	ion int	erface.		
			Communi				ion of Ba	ud Rato	Addross	IP and co	mmunic	ation la	nausa	0			
		_	Analog Co												r		
			Analog M														
		-	Vout: 4 di	gits, acc	uracy: 0.	05% of ra	nted outp	out voltag	ge +/-1 co	ount.							
2.Display			lout: 4 dig														
		-	OUTPUT														
3.Front Panel Buttons Indicat	ions											s, LFP, Aı	utostai	rt, Safe	tstart, Fo	oldback V	//I, Remote
4. Front Panel Display Indicati	ions		(commun	ication)	, RS/USB	/LAN/IEEI	E commu	inication,	Trigger,	Load/Sto	ore Cell.						
ENVIRONMENTAL CONDITIO	NS																
.Operating temperature			0~50°C, 1	00% loa	d.												
2.Storage temperature			-30~85°C														
3.Operating humidity		- %	20~90% R	H (no c	ondensa	tion).											
4.Storage humidity		%	10~95% R														
5.Altitude (*17)		= ===					it current	derating	1 2%/100	m or Ta	derating	1°C/100	m abo	ve 200	0m Noi	n operati	ng: 40000ft (120
MECHANICAL		-	operating	,		iii)/ outpu		. acrating	, 270, 100		acrating	. 6, .00		10 200		operation	
1.Cooling																	
2.Weight			Forced air) by inte	rnal fans.	Air flow	direction	: from Fro	ont pane	l to pow	er supply	y rear				
-	GSP 10kW	kg	Less than	15.5kg.													
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H:	88, D: 4	41.5 (Wit	hout bus	bars and	busbars o	cover),								
2.Weight	GSP 15kW	kg	W: 423, H:		40 (Inclu	ding busl	oars and	busbars c	over, and	l strain re	elief) (Ref	er to Ou	tline di	rawing).		
3.Dimensions (WxHxD)	GSP 15kW	ĸy	Less than	23.5kg.													
4 Vibration	GJF I JKW	mm	W: 423, H:	132.5. F	; 441.5 (Without H	ousbars a	nd busha	rs cover)								
4.Vibration			W: 423, H:	132.5, [): 640 (In	cluding b	usbars a	nd busba	rs cover, a	and strai	n relief) (Refer to	Outline	e draw	ing).		
5.Shock			MIL-810G,	metho	d 514.6,	Procedure	e I, test c	ondition	Annex C -	2.1.3.1							
SAFETY/EMC		-	Less than	20G, ha	lf sine, 1	1mSec. U	nit is unp	acked.									
1.Applicable standards:	6.6.		LIL CTOTO			1010 1		1 540 44	010.1								
1.1. Interface classification	Safety		UL61010-														
		-	Vout≤50V 60≤Vout≤	Models	: Output odels: O	, J1, J2, J3 utput & J	, J4, J5, J6 8 (sense)	5, J7, J8 (s are haza	ense) & ال rdous, إل	9 (comm , J2, J3, J	unicatior 4, <u>15</u> , <u>1</u> 6,	n options	s) are N	lon Ha Inicati	zardous.	ns) are N	on Hazardous. DC 1 min ,
			Input - G	round.	2835VF	C 1min	ur a jö (sense), j	, <u>, ,</u> , <u>,</u>	,+, <u>,</u> , ,, ,,	5, <u>}7 ∝ </u>]5	(confil	unica		ptions;	. 4242 VI	Je min,
			60V≤Vou	t≤100V	Model	s: Input -	- Outpu	t & J8 (se	ense), J1,	J2, J3, J	4, J5, J6,	J7 & J9	(comr	nunic	ation or	otions): 4	4242VD¢ 1min,
		-	Output 8	J8 (sei	nse) - J1	, J2, J3, J4	1, J5, J6, J	7 & J9 (c	ommun	ication	options): 850VI	DC 1m	nin.			
1.2 Withstand voltage			Output 8 100V <vo Output 8 Output 8 Input - G</vo 	a J8 (sei ut≤600 a J8 (sei a J8 (sei round:	V Mode 1se) - J1 1se) - Gi 2835VE	12, J3, J4 12, J3, J4 12, J3, J4 12, J3, J4 12, J3, J4 12, J2, J3, J4 12, J2, J3, J4 12, J2, J3, J4 12, J2, J3, J4 14, J2, J4, J4, J4, J4 14, J4, J4, J4, J4, J4 14, J4, J4, J4, J4, J4, J4, J4, J4, J4, J	500VDC - Outp 4, J5, J6, J 500VDC	ut & J8 (s 7 & J9 (c 1min.	sense), J commun	1, J2, J3, lication	J4, J5, J6 options	5, J7 and): 1275\	d J9 (co /DC 11	ommu min.	nicatio	n option	4242VDC 1min, s): 4242VDC 1r
			GSP10kW														
3 Insulation resistance		-	IEC/EN612	001-21-	dustrial	au 25-C,	ent Ann	ov H to G		C Part 1		_Δ					
			LIEC/EIND 1	204-3 IN	uustrial (environm	ені, Апп	ex n tabl	е п. г., РС	C rdft 1							
2.Conducted emmision			IEC/ENIC12	04 2 1	ductor	n dron	ont Arr	ov Litabi	0 LI 2 a		Dort 15	A VICCI	Δ.				
1.3 Insulation resistance 2.Conducted emmision 3.Radiated emission 4. EMC compliance	E M C(*18)		IEC/EN612 IEC/EN612				· · ·	ex H tabl	e H.3 and	H4, FCC	Part 15-	A, VCCI-	Α.				

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0°

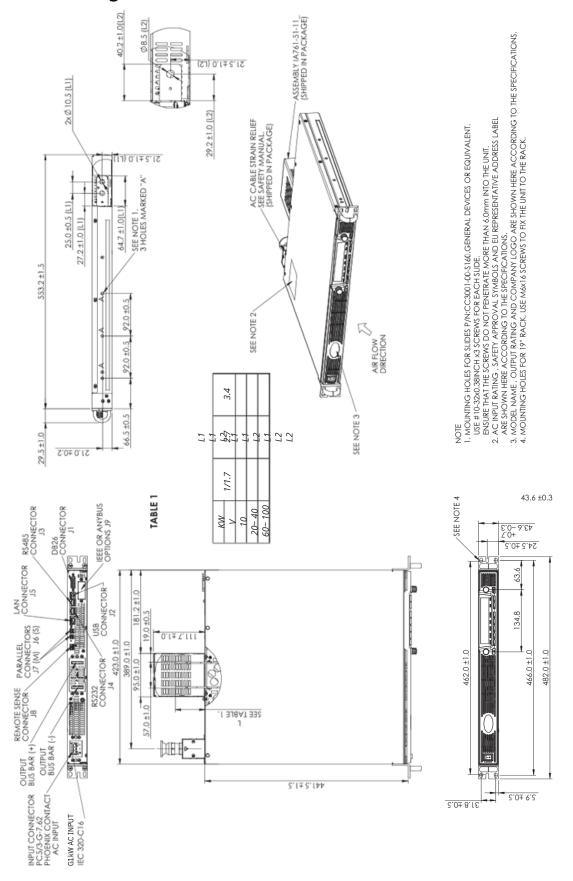
to 50° C. "NOTES:

*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage

to 50° C. "NOTES:
*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
*2: Minimum current is quaranteed to maximum 0.2% of rated output current.
*3: GSP 10kW: Derate 10A/1°C above 40°C (2%) TSW: Derate 15A/1°C above 40°C.
*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
*5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
*6: Not including EMI filter inrush current, less than 0.2mSec.
*7: 3-Phase 200V models: 170-265Vac, 3-Phase 400/480V: At 380Vac area 480V models: 342-528Vac. Constant load.
*8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
*9: For 10V~150V models: Measured with JETA RC-9131C (1:1) probe. For 200-600V models: Measured with 100:1 probe.
*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
*11: From 10% to 90% to 10% of Rated Output Voltage, with rated, resistive load.
*12: From 90% to 10% of Rated Output Voltage, and not exceed the rated voltage.
*14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.
*15: For 10V model Ta derating 2°C/100m."
*16: Measured at the sensing point.
*17: For 10V model I a derating 2°C/100m."
*18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
*19:Max. ambient temperature for using IEEE is 40°C.
*20:GSP16WF For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 900A up to 30°C.
*20:GSP16WF For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.
*21: For 10V model only: For 3



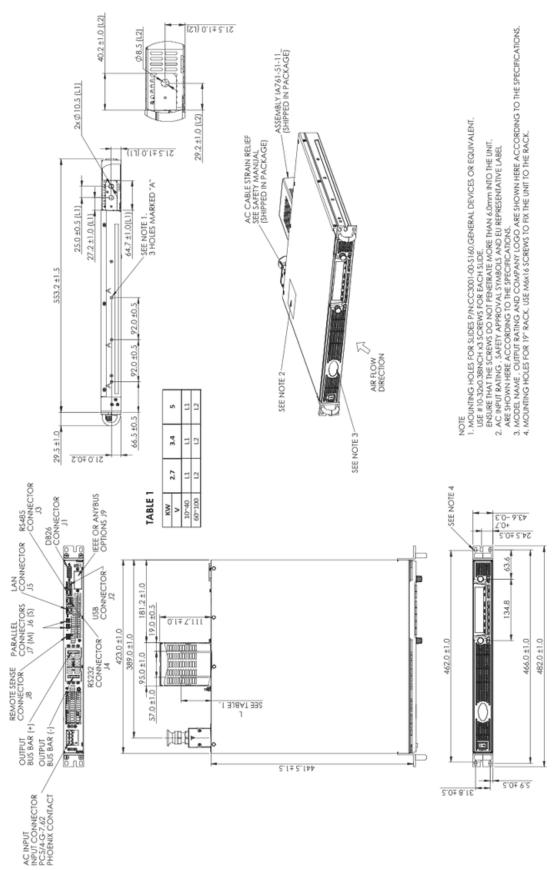
Outline Drawing GENESYS[™] G1kW/1.7kW/2.7kW/3.4kW - 1-Phase





Outline Drawin **GENESYS**[™] G2.7kW/G3.4kW/G5kW - 3-Phase

(Not includes G+5kW models: 1000V & 1500V).

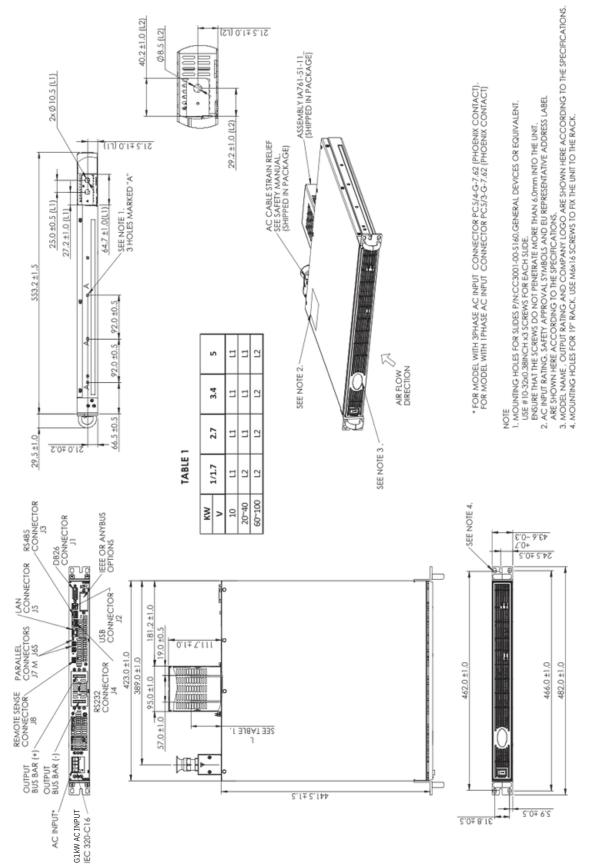


32



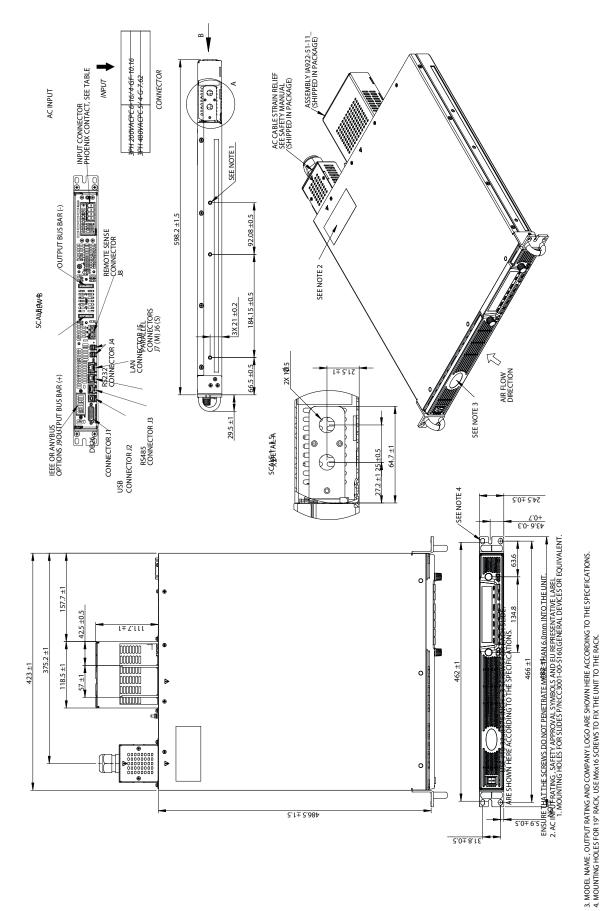
Outline Drawi**GgNESYS[™] GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW** - ATE Version

(Not includes G+5kW models: 1000V & 1500V).





Outline Drawin**G**[™]ENESYS[™] G7.5kW - LV (20V-100V) 3-Phase

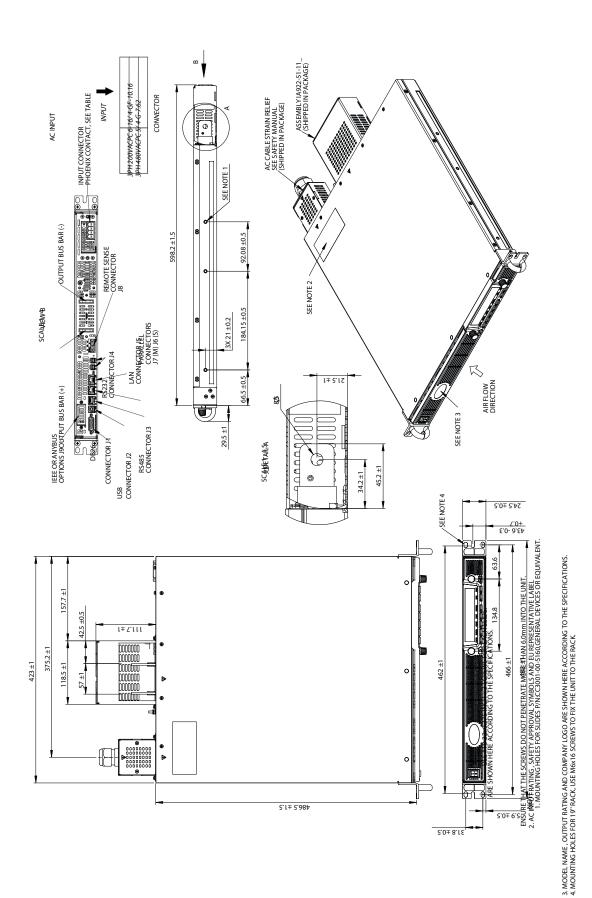


G+7.5KW 20V~100V



Outline Drawing GENESYS[™] G7.5kW - HV (150V-15003/Phase

(includes G+5kW models: 1000V & 1500V).

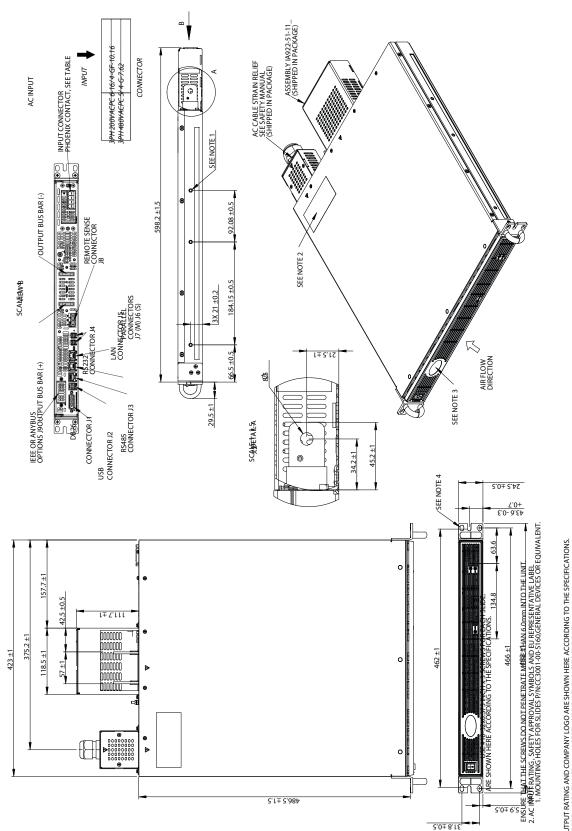


G+7.5KW 150V~1500V



Outline Drawing GENESYS[™] GB7.5kW ATE Version

(includes G+5kW models: 1000V & 1500V).

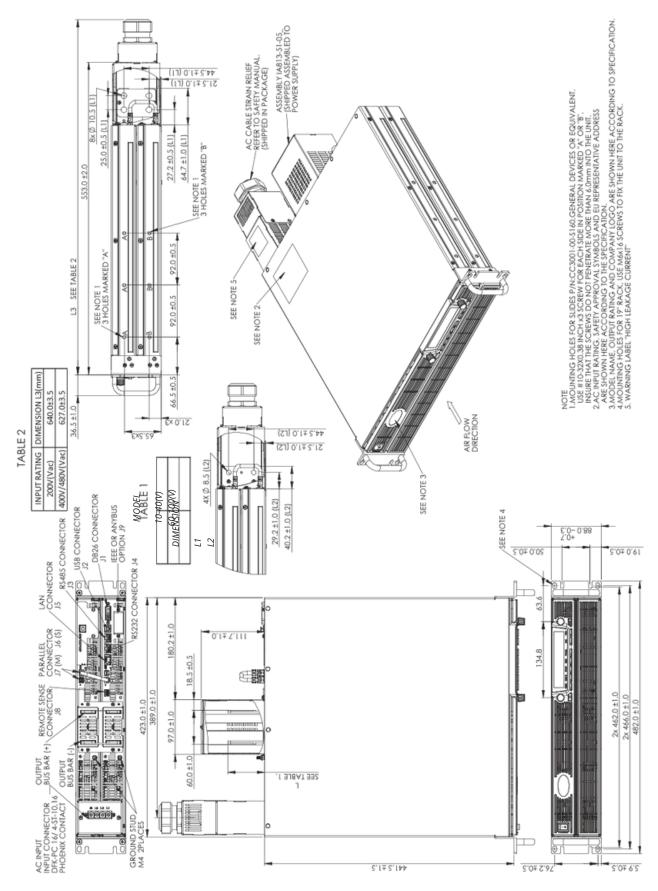


3. MODEL NAME, OUTPUT RATING AND COMPANY LOGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS. 4. MOUNTING HOLES FOR 19" RACK, USE MØX16 SCREWS TO FIX THE UNIT TO THE RACK.



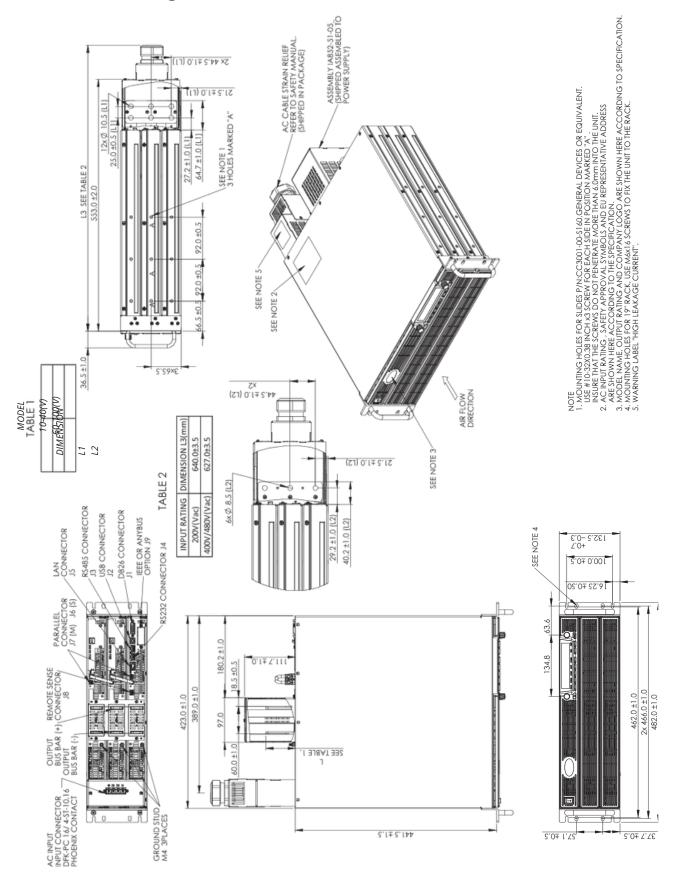
Outline Drawing GENESYS[™] GSP10kW

(includes G+5kW models: 1000V & 1500V).



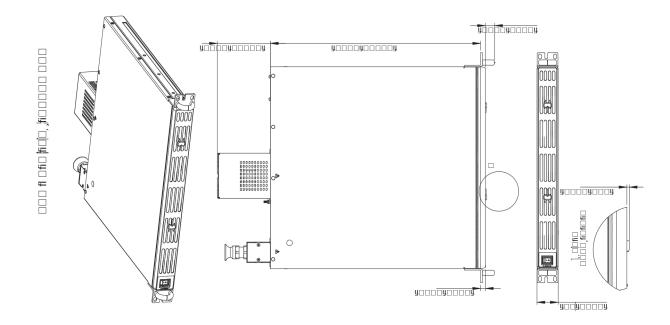


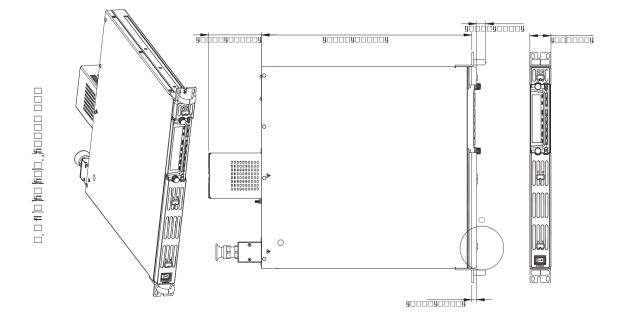
Outline Drawing GENESYS[™] GSP15kW





Outline Drawing GENESYS[™] Air Filter Kit



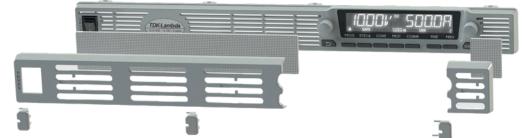




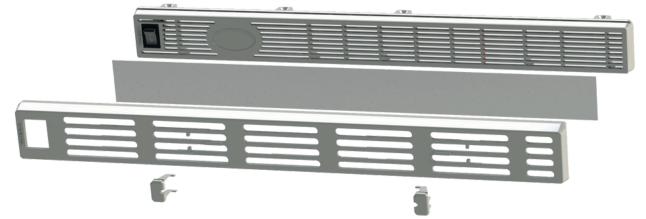
Front Panel Air Filter Assembly

Front panel dust cover is available for dusty air environment applications Dust cover is removable snap-in filter (for easy maintenance)

Part Number (for standard unit) : G-AFK



Part Number (for unit with blank front pan B-AFK



For GSP 10kW/15kW series order part number: GSP10kW-AFK / GSP15kW-AFK

Accessories

1. Front Panel dust filter / Field installation kit:

Technical Specifications: Unit with Air Filter Assembly Installed

• Derating (enviromental): • Operating Temperature • For all models (except 10V): 0 Č to +40 Č full load; For 10V model: 0 Č to +30 Č, derate 5A/ Č for 30 Č < Ta < +40 Č • Altitude • For all models (except 10V): derate 2 Č/100m or 2% of load/100m (above 2000m) • For 10V model: derate 1 Č/100m or 2% of load/100m (above 2000m)

Filter Foam Technical Specifications

- Material: reticulated polyurethane foam
- Thickness:3.8 mm
- Porosity: 45ppi
- Operating Temperature Range: 0 c to +60 c
 Storage Temperature Range: -40 c to +85 c
 Humidity: 95% RH

Air Filter Assembly Components

Standard Unit (P/N: G-AFK) · Air Filter Cover (two pieces) · Slide Button #1 (two locations: near AC ON/OFF switch and near left-hand side of front panel display) • Slide Button #2 (one location: righthand side of front panel display) • Filter foam (two pieces)

Blank Front Panel Unit (P/N: GB-AFK)

- Air Filter Cover (one piece)
- Slide Button #1 (two locations) Filter foam (one piece)



Contactgegevens Spaarpot 149 5667 KW Geldrop <u>+ 31 (0)40 851 2170</u> info@BMF-systemparts.com