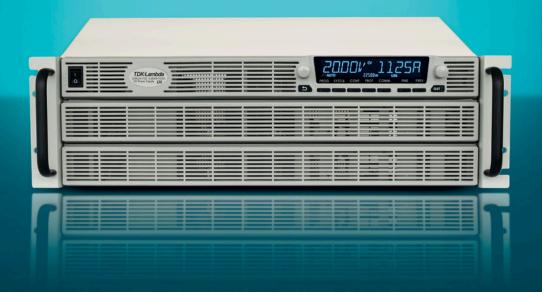




G≠NESYS G Series Programmable DC Power Supplies GSPL 15kW/22.5kW in 2U/3U Height

! 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



TDK-Lambda



The **GENESYS™** 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 (15kW/22.5kW in 2U/3U height) in 19" rack-mount
- Light-weight GSPL 15kW<18 kg, 22kW<25 kg
- Wide Range of popular worldwide AC inputs:
 GSPL10kW / GSPL15kW: 3ø (208VAC, 480VAC), Wide-range 3ø 208VAC (170VAC ~ 265VAC)
 Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1125A
- 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 15kW and 22.5kW
- Parallel Systems (up to 90kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

GENESYS™ 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 four (4) GSPL 22.5kW units. Each unit is 3U 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.



GSPL15kW 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

GSPL15kW 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 (PHOENIX CONTACT GIC 2,5 HCV/3-ST-7,62).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 8. Input Connector: 208VAC, 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.



GSPL22.5kW 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

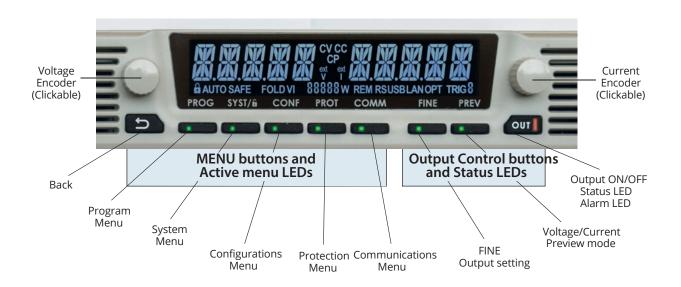
GSPL22.5kW Rear Panel Description



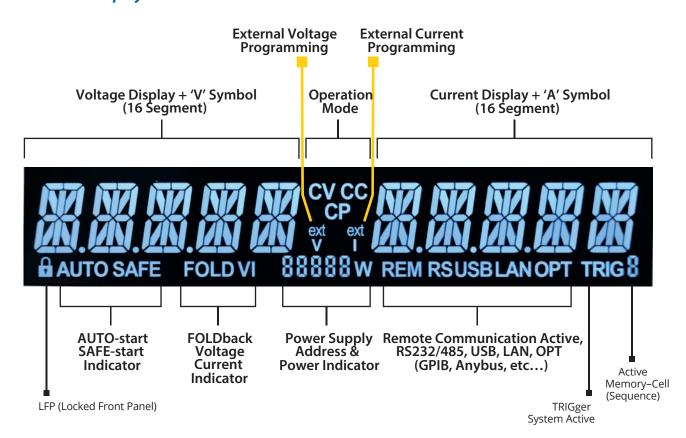
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (L) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling 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 (PHOENIX CONTACT GIC 2,5 HCV/3-ST-7,62).
- 7. Output Connections: Rugged busbars for models up to and including 1500V Output;
- 8. Input: 208VAC, 480VAC Three Phase, 50/60 Hz. AC Input Plug Connector: 3-Phase 208: PC 35 HC/ 4-GF-15,00 Phoenix Contact. 3-Phase 480: DFK-PC 16/ 4-STF-10, 16 PHOENIX CONTACT.
- 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 & GSPL 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.

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation.

Active current sharing allows up to thirty (30) identical units to be connected

Total real current is programmed measured and reported by the Master. Up to thirty (30) power supplies operate as one. Standard Unit - zero stacked up to 30 units

OUT (LED)



Standard & Blank - zero stacked up to 30 units



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.







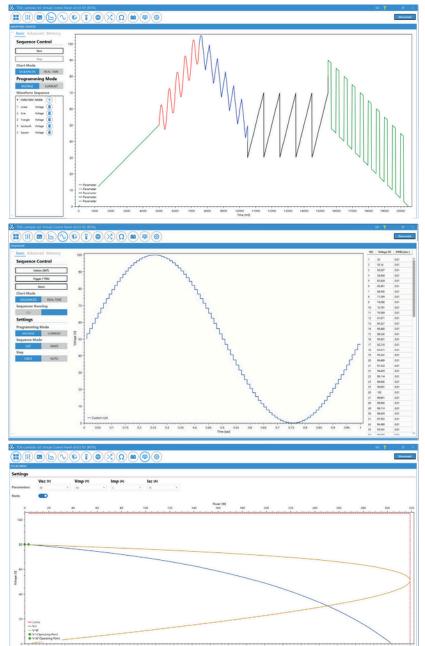


Graphical User Interface

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

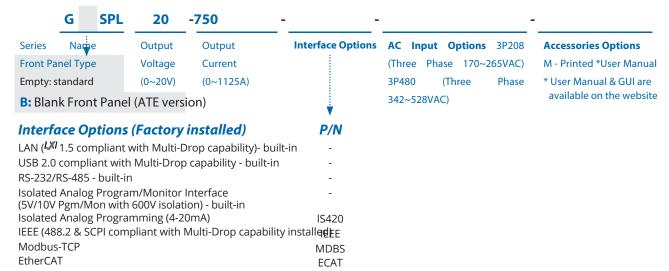
- 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. Automatically detect power supplies connected to a PC and/or local network.
- 3. Advanced Terminal, including Modbus-TCP and EtherCAT communication interfaces.
- 4. Real-time Graph and Waveform creator, including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

GUI Waveform Profile Generator





How to order GSPL15kW-22.5kW - Power Supply Identification / Accessories



Models GSPL 15kW

Model	Voltage (VDC	Current (A)) Power (kW)	Model	Volt
GSPL20-750	0~20V	0 ~750	15	GSPL150-100	0~
GSPL30-500		0 ~50 0	15	GSPL200-75	0-
GSPL40-376	0~40V	0 ~376	15	GSPL300-50	0-
GSPL60-250		0 ~250	15	GSPL600-25	0^
GSPL80-188		0~188	15	GSPL1000-15	_
GSPL100-150	0~100V	0~150	15	GSPL1500-10) 0~

Model	Voltage (VDC)Current (A)Power (kW)
GSPL150-100	0~150V	0~100	15
GSPL200-75	0~200V	0~75	15
GSPL300-50	0~300V	0~50	15
GSPL600-25		0~25	15
GSPL1000-15		0~15	15
GSPL1500-10	0~1500V	0~10	15

Models GSPL22.5kW

Model	Voltage (VDC)	Current (A)	Power (kW)
GSPL20-112		0~1125	22.5
GSPL30-750	0~30V	0 ~750	22.5
GSPL40-564	0~40V	0~564	22.56
GSPL60-375	0.5007	0 ~375	22.5
GSPL80-282	()·~()() V	0~282	22, 56
GSPL100-22	0~100V	0 ~225	22.5

Model	Voltage (VDC)	Current (A)	Power (kW)
GSPL150-150	0~150V	0~150	22.5
GSPL200-112	.5 0~200V	0~112.5	22.5
GSPL300-75	0~300V	0~75	22.5
GSPL600-37.	5 0~600V	0~37.5	22.5
GSPL1000-22	.5 0~1000V	0~22.5	22.5
GSPL1500-15	0~1500V	0~15	22.5

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 Power Supply Connector	Shielded L=2m RJ-45	Shielded L=2m 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

3. Remote Sense Connector

Connectors	Cables	P/N
Phoenix Contact.	Wire AWG - refer to User Manual	GIC 2,5 HCV/ 3-ST-7,62

4. User Manual

Printed User Manual	G/M
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GENESYS™ GSPL 15kW Series Specifications

Unless otherwise										•		_		
OUTPUT RATING			20-750	30-500	40-376	60-250	80-188	100-150	150-100	200-75	300-50	600-25	1000-15	1500-10
1.Rated output voltage (*1)	V	V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)	A	Α	750	500	376	250	188	150	100	75	50	25	15	10
3.Rated output power	W	kW	15000	15000	15040	15000	15040	15000	15000	15000	15000	15000	15000	15000
INPUT CHARACTERISTICS		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 3-Phase, 200V	8 wire+ground (*4)			Rom VAQ				vers 388/4						
models: 2:Maxim 4801/nput current at					rated out	put powei								
1009@lsad														
3.Power Factor (Typ.)										-				
4.Efficiency (Typ.) (*5) (*3) 5.Inrush current (*6)		%	91	91	91	91	91	91	91	91	91	92	92	92
Sillirusii current (~6)			Less than	130A.										
CONSTANT VOLTAGE MODE		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			0.01% of				00	100	150	200	300	000	1000	1300
2.Max. Load regulation (*8)			0.01% of											
3.Ripple and noise (p-p, 20MHz)) (*9)	mV	80	80	80	80	90	90	150	250	250	450	1400	1700
4.Ripple and noise (p-p, 2011) 4.Ripple r.m.s. 5Hz~1MHz (*9)	/	mV	10	10	10	12	15	15	20	45	60	100	400	600
5.Temperature coefficient				from rate	ed output	voltage, fo	llowing 3	0 minutes	warm-up.					
6.Temperature stability								30 minutes		. Constant	line, load	& temper	ature.	
7.Warm-up drift			Less than	0.05% of	rated outp	ut voltage	+2mV ov	er 30 minu	ites follow	ing power	on.			
8.Remote sense compensation	/wire (*10)	V	2						5					
9.Up-prog. response time (*11) 10.Down-prog. response time		mS mS	30	30	30	50	50	50	50	50	50	100	150	200
. s. s s m prog. response dille	Full load (*12)		50	80	80	80	100	100	100	100	100	100	100	100
	No load (*12)		600	600	1000	1000	1000	1500	2500	2500	3000	3000	3000	3000
11. Transient response time			Time for output voltage to recover within 1% of its rated output for 20~30V; 0.5% of its rated output for 40 10~90% of rated output current Local sense. Output set point: 10~100%. Less than 1mS for models up to and including 100V. 2mS for models above 100V.						for 40~15	00V, for a l				
12. Hold-up time			Less than								-			
13.Start-up delay					output po	wer.								
			, , ,											
CONSTANT CURRENT MODE		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			0.05% of		-									
2.Max. Load regulation (*13)			0.08% of											
Ripple r.m.s. 5Hz~1MHz (*14)		mA	≤1800	≤1000	≤600	≤300	≤200	≤140	≤90	≤40	≤30	≤28	≤20	≤20
Temperature coefficient Temperature stability			20V~100\	/ models:		C from rat		current, fo	llowing 30	0 minutes	warm-up.			
6.Warm-up drift			150V~150	00V mode	ls: 70PPM/	°C from ra	ted outpu	t current, f	ollowing 3	30 minutes	warm-up).		
· · · · · · · · · · · · · · · · · · ·			0.01% of	rated lout	over 8hrs	interval fo	ollowing 3	0 minutes	warm-up.	Constant	line, load	& tempera		
			20V~100\ 150V~150	/ models: 00V mode	Less than ls: Less tha	+/-0.25% on n +/-0.15	of rated ou of rated	itput curre output cu	nt over 30 rrent over	minutes f 30 minute	ollowing per following	oower on. g power o	n.	
ANALOG PROGRAMMING ANI														
	MONITORING (ISO	I ATED FROM	M THE OUT	PUT)										
	O MONITORING (ISO	LATED FROI			~10V IISA	selectable	Accurac	v and lines	ritv• +/-∩ 1	5% of rate	ed Vout			
1.Vout voltage programming			0~100%,	0~5V or 0				y and linea						
1.Vout voltage programming 2.lout voltage programming (*			0~100%, 0~100%,	0~5V or 0 0~5V or 0	~10V, usei	selectable	e. Accurac	y and linea	rity: +/-0.4	4% of rate	d lout.	t.		
1.Vout voltage programming 2.lout voltage programming (* 3.Vout resistor programming	15)		0~100%, 0~100%, 0~100%,	0~5V or 0 0~5V or 0 0~5/10KΩ	~10V, usei full scale,	selectable user selec	e. Accurac table. Acc	y and linea uracy and	arity: +/-0.4 linearity: +	1% of rate ⊦/-0.5% of	d Iout. rated Vou			
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1. Vout voltage programming 2. lout voltage programming (* 3. Vout resistor programming 4. lout resistor programming (* 5. Output voltage monitor	15)		0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0 0~5V or 0 0~5/10ΚΩ 0~5/10ΚΩ ~10V, use	~10V, user full scale, full scale, r selectab	selectable user selec user selec le. Accurac	e. Accurac table. Acc table. Acc	y and linea uracy and uracy and	arity: +/-0.4 linearity: - linearity: - lout.	1% of rate ⊦/-0.5% of	d Iout. rated Vou			
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1. Vout voltage programming (* 2. lout voltage programming (* 3. Vout resistor programming (* 5. Output voltage monitor (* 15. Output voltage monitor (* 15. Output voltage monitor (* 15. Output current monitor (* 15.	115) 115) DLATED FROM THE C		0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0	D~5V or 0·0 D~5V or 0·0 D~5/10KΩ D~5/10KΩ ~10V, use ~10V, use Doply output Voltage: conitor. Open Sink Currisable ana	~10V, usei full scale, full scale, r selectab r selectab ut monitor 30V. Maxi en collector rent: 10m/	selectable user select user select user select le. Accuract le. Accuract r. Open col mum Sink or. CC mod A.	e. Accurac table. Acc table. Acc table. Acc cy: +/-0.5% yy: +/-0.5% lector. Ou Current: 1 e: On. CV	y and linea uracy and uracy and o of rated to o of rated lo tput On: O 0mA. mode: Off.	arity: +/-0.4 linearity: + linearity: + /out. but. n. Output	4% of rates -/-0.5% of -/-0.5% of Off: Off.	d lout. rated Vou rated lout			
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1. Vout voltage programming (* 8. Zout voltage programming (* 8. Zout voltage programming (* 9. Zout resistor programming (* 5. Zoutput voltage monitor (* 15. Zoutput voltage monitor (* 15. Zoutput current monitor (*	DLATED FROM THE C		0~100%, 100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 Power sul Maximum CV/CC Mc Maximum Enable/D Remote: 0 Analog pi Maximum Enable/D 0~0.6V or 0	D~5V or 0-0-5V or 0-5V or	~10V, user ifull scale, full scale, full scale, r selectab r selectab ut monitor and solv. Maxi en collector rent: 10m log progr. short. Loc. ng contro 30V. Maxi output by 30V or op	r selectable user select user select user select le. Accurace le. Accurace r. Open col mum Sink or. CC mod A. amming co lat: 2~30V of mum-Sink electrical: en. User see	e. Accurac table. Acc table. Acc table. Acc y: +/-0.5% lector. Ou Current: 1 ie: On. CV ontrol by 6 or open signal. Op Current: 1 signal or d	y and linea uracy and uracy and of rated to of rated to tour one of oma. mode: Off. electrical si en collecto oma. lry contact	rity: +/-0.4 linearity: + linearity: + linearity: + /out. out. n. Output Maximum ignal or dr	4% of rate: h-/-0.5% of h-/-0.5% of Off: Off. voltage:	d lout. rated Vou rated lout			
1. Vout voltage programming (* 2. lout voltage programming (* 3. Wout resistor programming (* 5. Output voltage monitor (* 15. Output voltage monitor (* 15. Output current monitor (* 15.	DLATED FROM THE C	UTPUT)	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 Power sul Maximum CV/CC Mc Maximum Enable/D Remote: 4 Analog pi Maximum Enable/D 0~0.6V or 0 0~0.6V	D~5V or 0-0-5V or 0-0-5V or 0-0-5V or 0-0-5/10KΩ D~5/10KΩ To~5/10KΩ To~5/10	~10V, user tfull scale, tfull scale, tfull scale, tfull scale, trelectab tre	r selectable user select user select user select le. Accurace le. Accurace r. Open col mum Sink or. CC mod A. amming co lat: 2~30V of mum-Sink electrical: en. User see	e. Accurac table. Acc table. Acc ty: +/-0.5% ty: +/-0.5% lector. Ou Current: 1 ie: On. CV pontrol by e or open. signal. Ope Current: 1 signal or d dectable to	y and linea uracy and uracy and uracy and to of rated lo to of rated lo omA.	rity: +/-0.4 linearity: + linearity: + linearity: + /out. out. n. Output Maximum ignal or dr	4% of rate: h-/-0.5% of h-/-0.5% of Off: Off. voltage:	d lout. rated Vou rated lout			
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1. Vout voltage programming (*) 2. lout voltage programming (*) 3. Vout resistor programming (*) 5. Output voltage monitor 6. Output voltage monitor 6. Output current monitor (*15) 5. SIGNALS AND CONTROLS (ISO 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog cont 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal	DLATED FROM THE C		0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or	O~5V or O·O~5V	~10V, user trull scale, trull s	selectable user selec user selec user selec user selec e. Accurac c. Open col mum Sink or. CC mod A. amming co al: 2~30V of mum-Sink electrical : electrical : Dutput OF olle signals. tage = 0.8°	e. Accurac table. Acc	y and linea uracy and uracy and uracy and to o of rated lo to of rated lo to of rated lo to of rated lo to of rated lo omA. mode: Off. electrical si en collecto omA. lry contact or open. ovoltage 2	irity: +/-0.4 linearity: + linearity: + linearity: + /out. out. n. Output Maximum ignal or dr or. Remote . 5V. Maxim el input vo	4% of rates In the second of t	d lout. rated Vourated lout 30V. I: Off.	DmA		
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1. Vout voltage programming (*) 2. Iout voltage programming (*) 3. Vout resistor programming (*) 5. Output voltage monitor 5. Output voltage monitor 6. Output current monitor (*15) 6. I. Power supply OK #1 signal 7. CV/CC signal 8. LOCAL/REMOTE Analog cont 8. LOCAL/REMOTE Analog signal 6. ENABLE/DISABLE signal 6. I.NTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal	TIS) DIATED FROM THE CO		0~100%, 100%, 100%, 100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V o	D~5V or 0-0-5V or 0-0-5V or 0-0-5V or 0-0-5/10KΩ D~5/10KΩ TOV, use ~10V, use ~10V, use ~10V, use poply output Voltage: pointor. Open Sink Currisable ana poco.6V.or. pogrammin Voltage: postable PS of Sink Currisable PS o	~10V, user if ull scale, if ul	r selectable user selectuser selectie. Accuracie. Accur	e. Accurac table. Acc ty: +/-0.5% ty:	y and linea uracy and uracy and uracy and to of rated lo to of rat	irity: +/-0.4 linearity: + linearity: + linearity: + /out. out. n. Output Maximum ignal or dr or. Remote . 5V. Maxim el input vo	4% of rates In the second of t	d lout. rated Vourated lout 30V. I: Off.	DmA		
	TIS) DIATED FROM THE CO		0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 Power sul Maximum CV/CC Mc Maximum Enable/D Remote: G Analog pi Maximum Enable/D O~0.6V or Enable/D Output O Two oper (shunted Maximum Maxi	O~5V or 00	~10V, user if ull scale, if ull manifold if ull scale, if	r selectable user selectuser selectuser selectice. Accuracide. Acc	e. Accurac table. Acc	y and linea uracy and uracy and uracy and to of rated lo to of rated lo 0mA. Holectrical si en collecto 0mA. Iry contact or open. In voltage 2 m high lev ger: tw = 1	irity: +/-0.4 linearity: + linearity: + linearity: + /out. out. n. Output Maximum ignal or dr or. Remote . 5V. Maxim el input vo	4% of rates In the second of t	d lout. rated Vourated lout 30V. I: Off.	DmA		
D. Nout voltage programming (* 2. lout voltage programming (* 3. Nout resistor programming (* 3. Nout resistor programming (* 4. Nout resistor programming (* 5. Output voltage monitor (* 15. Output voltage monitor (* 15. Output current monitor (*	TIS) DIATED FROM THE CO		0~100%, 100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	D~5V or 0-0-5V or 0-0-5V or 0-0-5V or 0-0-5/10KΩ D~5/10KΩ ~10V, use ~10V, use ~10V, use ~10V, use pply output Voltage: pointor. Ope Sink Curr Sisable ana D~0.6V or. Orgrammi Voltage: Sisable PS of N: 0~0.6V Ordrampi Dy Z7V ze I low level I high leve between Lat Voltage K, 0V (500	~10V, user if ull scale, if ull monitor if under the scale if ull monitor if ull scale if ull monitor if ull scale if ull scale if ull scale if ull monitor if ull input ull i	r selectable user select user select user select le. Accuract r. Open colo mum Sink or. CC mod A. amming co al: 2~30V of mum Sink electrical: Dutput OF ole signals. tage = 0.8' SV positive ms. 2~30V or nnce) = Fall	e. Accuractable. Acctable.	y and linea uracy and uracy and uracy and to of rated lo to of rated lo 0mA. Holectrical si en collecto 0mA. Iry contact or open. In voltage 2 m high lev ger: tw = 1	irity: +/-0.4 linearity: +l-0.4 linearity: +l linearity: +l oout. n. Output Maximum ignal or dr or. Remote	4% of rates I/-0.5% of	d lout. rated Vourated Vourated Iout 30V. I: Off. urrent 100 5V. = 1us max	DmA		

Possible. Two identical units. Refer to instruction manual.

Possible. IWO Identical units, Refer to Instruction manual.

Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.

Limits the output power to a programmed value. Programming via the communication ports or the front panel.

Emulates series resistance. Resistance range: 1~1000mΩ. Programming via communication ports or front panel.

Programmable Output rise and Output fall slew rate.

Programming range: 0.0001~999.99 V/mS. or A/mS.

Programming via communication ports or front panel.

10

2.Series operation

3.Daisy chain 4.Constant power control 5.Output resistance control 6.Slew rate control



PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*17) (*18) Interfaces)

PROGRAMMING AND READBACK (USB, LAN,	RS232/485, Opti	onal (*17) (*20) In	terfaces)						_				
	V	20	30	40	60	80	100	150	200	300	600	1000	1500	
1.Vout programming accuracy (*16)				put voltag										
2.lout programming accuracy (*15)				put curren		rated out	put curren	ıt.						
3.Vout programming resolution				ıtput volta										
4.lout programming resolution				itput curre										
5.Vout readback accuracy				ut voltage										
6.lout readback accuracy (*15)		0.2% of r	ated outp	ut current										1
7.Vout readback resolution	% of rated output volta	ge0.006%	0.004%	0.004%	0.003%	0.002%	0.011%	0.008%	0.006%	0.004%	0.003%	0.011%	0.008%	
8.lout readback resolution	o%ptretede			0.004%	0.005%	0.006%	0.008%	0.011%	0.002%	0.003%	0.005%	0.008%	0.011%	
7.Arbitrary waveforms	% of rated output	Profiles of Activation	up to 100 n by comr	steps can mand via c	be stored ommunica	in 4 memo	ry cells. or front p	anel.						
PROTECTIVE FUNCTIONS	V	20	30	40	60	80	100	150	200	300	600	1000	1500	1
1.Foldback protection		Output st	nut-down	when pow	er supply	changes r	node from		ver Limit_to	CC mode	or from C	C or Powe	r Limit to C	V mode. User unication.
2.Over-voltage protection (OVP)														
		Output sh	nut-down			•				-				communication
3.Over-voltage programming range	V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5 5~165.37	5~220.5	5~330.7	5~661.5	5~1212.7	⁷ 5 5~1653.	.75
4.Over-voltage programming accuracy		+/-1% of	rated out	out voltage	2.									
5.Output under voltage limit (UVL)		Dravants	from adiu	sting Vout	halow lin	nit Does n	ot apply ir	analog ni	roarammir	na				1
6.Over temperature protection		Preset by	front pan	el or com	nunicatio	n port.	or apply II	. arialog pi	- Si aiiiiiiii	.a.				1
7.Output under voltage protection (UVP)				tput. Auto			rt mode.]
				•				off during:	ındor volt	ngo cond!!	tion			
		Reset by	adjustme AC innut r	nt of Vout recycle in a	neiow iim	node by P	ower Swite	on during t	PHT butte	n by rear	nanel or h	v commili	nication	
FRONT PANEL				, 1110			5	, 2, 001	. o . butte	,, i cui	- u 01 D	,		
1.Control functions		Multiple	options w	ith 2 Enco	ders.									1
1.Control functions		Vout/lout	t/Power Li	imit manu	al adjust.									1
				ual adjust										1
				ns - OVP, L										1
				ınctions - S		of LAN, RS	232, RS485	, USB or O	ptional co	mmunicat	ion interfa	ice.		
				ont Panel]
				inctions - S]
				nctions - Se						(12/10K12 p	programmi	ng.]
				nctions - S racy: 0.059					5V/1UV.]
2.Display		lout: 4 die	gits, accur	acy: 0.2% (M, PREVIE)	of rated or	utput curr	ent +/-1 cc	ount.	. CONFIGL	JRATION, S	SYSTEM, SE	OUENCER	₹.	-
3.Front Panel Buttons Indications		Voltage, 0	Current, P	ower, CV, (CC, CP, Ext	ernal Volt	age, Exterr	nal Current	, Address,	LFP Autos	tart, Safet	start, Fold	back V/I, Re	emote
4.Front Panel Display Indications		(commun	nication), F	RS/USB/LA	N/Optiona	al commur	nication in	terface, Tri	gger, Load	l/Store Ce	II.		back V/I, Re	1
ENVIRONMENTAL CONDITIONS														
1.Operating temperature		0~50°C, 1	00% load											
2.Storage temperature		-30~85°C												1
				ndensation	2)									-
3.Operating humidity				ndensation										-
4.Storage humidity				(3000m), o		rrant darat	ing 2%/10	nn or Ta	taratina 19	C/100m a	hove 1500	m		
5.Altitude (*17)				000ft (1200		Trent delai	.iiig 2 /0/ 10		icrating i	C/ 100111 a	DOVE 1300			
MECHANICAL														
1.Cooling		Forced ai	r cooling l	by internal	fans. Airfl	ow directi	on: From f	ront panel	to power	supply rea	ar.			-
2.Weight	Kg	Less than												-
3.Dimensions (WxHxD)	mm 			594.6. Refe										-
4.Vibration				514.6, Pro			on Annex	C - 2.1.3.1						-
5.Shock		Less than	20G, half	sine, 11ms	. Unit is u	npacked.								J
SAFETY/EMC														
1.Safety standards		LII 61010-	1 CSA22	2 No.61010	1-1 IEC610	10-1 FN61	1010-1]
1.1.Interface classification								10 /		4! \	- N D			-
Transcender classification		60≤Vout≤	≤1500V M		put & J8 (s	ense) are l	nazardous,	, J1, J2, J3,	J4, J5, J6, J	7 & J9 (co	mmunicati	on option		Hazardous.
1.2.Withstand voltage		Input - Gr 60V≤Vou Output & Input - Gr 100V <vo Output & Input - Gr 1000V<vi Output & Input - Gr >60Mohr</vi </vo 	round: 283 t≤100V M J8 (sense) round: 283 ut≤600V M J8 (sense) round: 283 out≤1500 J8 (sense) round: 283 m at 25°C,) - J1, J2, J3 35VDC 1mi Models: Inp) - J1, J2, J3 35VDC 1mi V Models: J) - J1, J2, J3 35VDC 1mi 70%RH, O	n. yt — Outpu , J4, J5, J6, n. out — Outp , J4, J5, J6, n. Input — Ou , J4, J5, J6, n. utput to G	t & J8 (sen , J7 & J9 (co , J7 & J9 (co , J7 & J9 (co , J7 & J9 (co , J7 & J9 (co	se), J1, J2, sommunica nse), J1, J2 ommunica (sense), J1, ommunica	13, 14, 15, Julion option 1, 13, 14, 15, 11, 13, 14, 15, 15, 15, 16, 17, 18, 18, 18	6, J7 & J9 (ns): 850VD J6, J7 and ns): 1275Vi	communic C 1min, O J9 (comm DC 1min, (cation option utput & J8 unication of Dutput & Ji	ons): 4242 (sense) - G options): 4 8 (sense) -	VDC 1min, Ground: 150 242VDC 1r Ground: 25	00VDC 1min, min, 500VDC 1min.
1.3.Isolation resistance				ustrial env]
2.EMC standards (*18)				ustrial env			able H.1, F	CC Part 15	-A, VCCI-A					1
2.1.Conducted emission				ustrial env]
2.2.Radiated emission]
														-

NOTES:

- NOTES:

 *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V models; 0.1% of rated output voltage for 40V~1500V models.

 *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 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. Measured at the sensing point in Remote Sense.

 *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 at rated resistive load.

 *12: From 90% to 10% of Rated Output Voltage at rated resistive load.

 *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.

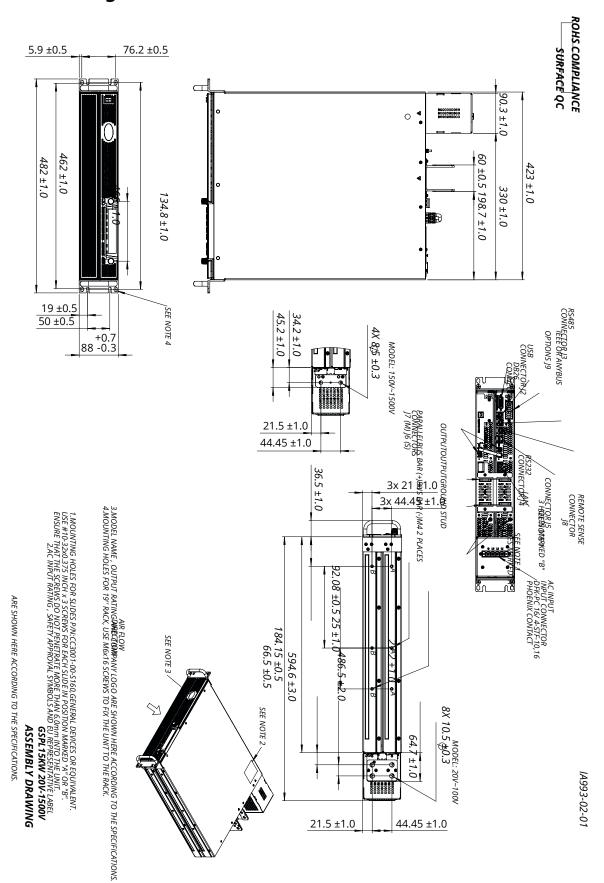
 *16: Measured at the sensing point.

 *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.



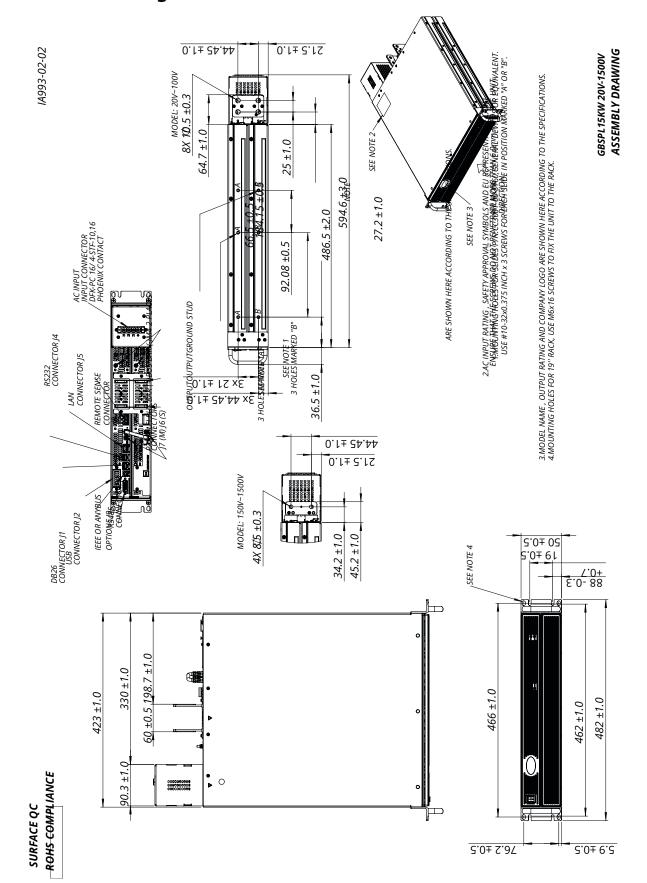
Outline Drawing GENESYS™ GSPL15kW



NOTE



Outline Drawing GENESYS™ GSPL15kW





GENESYS[™] GSPL 22.5kW Series Specifications

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

1 Dated output valtage (#1)			20-1125	30-750	40-564	60-375	80-282	100-225		200-112.5			1000-22.5	
.Rated output voltage (*1)		V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)		A	1125	750	564	375	282	225	150	112.5	75	37.5	22.5	15
3.Rated output power		W	22500	22500	22560	22500	22560	22500	22500	22500	22500	22500	22500	22500
NPUT CHARACTERISTICS		V	20	30	40	60	80	100	150	200	300	600	1000	1500
I.Input voltage/freg. 3 phase, 3 wi	ire+ground (*4)					5Vac, 47~63				200	500	000	1000	1500
i.iiiput voitage/iieq. 5 pilase, 5 wi	ire+ground (+)					8Vac, 47~63				60/480Vac).				
2.Maximum Input current at 3-Pha			75.5A @ 20											
	ise, 480V model	ls:	40.5A @ 38											
3.Power Factor (Typ.)					rated outp		01	0.1	- 01	01	- 00	- 02	- 02	- 02
4.Efficiency (Typ.) (*5) (*3) 5.Inrush current (*6)		%	91	91	91	91	91	91	91	91	92	92	92	92
S.IIII dsii cuiteiit (6)			Less than	195A.										
CONSTANT VOLTAGE MODE		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			0.01% of r	ated outpu	ıt voltage.									
2.Max. Load regulation (*8)			0.01% of r	ated outpu	ıt voltage -	+5mV.								
3.Ripple and noise (p-p, 20MHz) (*	9)	mV	80	80	80	80	90	90	150	250	250	450	2000	2500
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	10	10	10	12	15	15	20	45	60	100	550	700
5.Temperature coefficient						oltage, follo								
6.Temperature stability						interval foll					, load & te	mperature.		
7.Warm-up drift				0.05% of ra	ated outpu	it voltage +	2mV over 3	0 minutes		power on.				
8.Remote sense compensation/w	ire (*10)	V	2				_	_	5	_				
9.Up-prog. response time (*11)		mS	30	30	30	50	50	50	50	50	50	100	150	200
10.Down-prog. response time	Full load (*12)	mS	50	80	80	80	100	100	100	100	100	100	100	100
44 T	No load (*12)		600	600	1000	1000	1000	1500	2500	2500	3000	3000	3000	3000
11.Transient response time				•	-			ted output	tor 20~30\	v; 0.5% of it	s rated ou	tput for 40	~1500V, for	a load c
			10~90% o	f rated out	put currer	nt Local sen	se.							
			Less than	1mS for mo	odels up to	and includ	ing 100V.	2mS for mo	odels above	100V.				
12.Start-up delay			Less than											
13.Hold-up time			5mS Typic	al. Rated o	utput pow	/er.								
CONSTANT CURRENT MODE		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)				ated outpu										
2.Max. Load regulation (*13)				ated outpu										
3.Ripple r.m.s. 5Hz~1MHz (*14)		mA	≤6£02700	≤1500	≤900	≤450	≤300	≤210	≤135		≤45	≤42	≤25	≤25
4.Temperature coefficient						from rated				nutes warr				
						C from rate								
5.Temperature stability			0.01% of r	ated lout o	over 8hrs. i	nterval follo	owing 30 n	ninutes wa	rm-up. Cor	stant line,	load & ten			
6.Warm-up drift			20V~100V	models: L	ess than +	/-0.25% of r r+/-0.15% c	ated outp	ıt current (over 30 mir	nutes folloy	wing powe	er on.		
			1300~130	ov models	. Less triair	1 +/-0.1370 0	i rateu ou	put currer	it over 50 ii	illiutes ion	owing por	wei on.		
ANALOG PROGRAMMING AND	MONITORING	(ISOLAT	ED FROM T	HE OUTPU	JT)									
1.Vout voltage programming					-	electable. A	ccuracy ar	nd linearity	r: +/-0.15%	of rated Vo	out.			
						electable.								
2.lout voltage programming (*15))		U~ 100 70, C						/: +/-0.4% (
2.lout voltage programming (*15) 3.Vout resistor programming)			~5/10KΩ f	full scale, u	iser selecta				5% of rate	d Vout.			
			0~100%, 0				ole. Accura	cy and line	earity: +/-0.					
3.Vout resistor programming			0~100%, 0 0~100%, 0	~5/10KΩ f	full scale, u	iser selecta	ole. Accura	cy and line	earity: +/-0. earity: +/-0.					
3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor			0~100%, 0 0~100%, 0 0~5V or 0	~5/10KΩ f ~10V, user	full scale, u selectable	iser selecta iser selecta	ole. Accura ole. Accura +/-0.5% of	cy and line cy and line rated Vou	earity: +/-0. earity: +/-0. t.					
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)			0~100%, 0 0~100%, 0 0~5V or 0~	~5/10KΩ f ~10V, user	full scale, u selectable	iser selecta iser selecta . Accuracy:	ole. Accura ole. Accura +/-0.5% of	cy and line cy and line rated Vou	earity: +/-0. earity: +/-0. t.					
3. Yout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal			0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~)~5/10KΩ f ~10V, user ~10V, user	full scale, u selectable selectable	iser selectal iser selectal . Accuracy: . Accuracy:	ole. Accura ole. Accura +/-0.5% of +/-0.5% of	cy and line cy and line rated Vou rated lout	earity: +/-0. earity: +/-0. t.	5% of rate				
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)			0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 PUT)	~5/10KΩ f ~10V, user ~10V, user pply output Voltage: 3	full scale, u selectable selectable t monitor.	iser selectal iser selectal . Accuracy: . Accuracy: Open collectum Sink Cu	ole. Accura ole. Accura +/-0.5% of +/-0.5% of	cy and line cy and line rated Vou rated lout t On: On. O A.	earity: +/-0. earity: +/-0. t. Output Off:	5% of rate	d lout.			
3. Yout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal	ATED FROM TI		0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ POWER SUP Maximum	2~5/10KΩ f ~10V, user ~10V, user pply output Voltage: 3 nitor, Ope	full scale, u selectable selectable t monitor. OV. Maxim	iser selectal iser selectal . Accuracy: . Accuracy: Open collectum Sink Cu	ole. Accura ole. Accura +/-0.5% of +/-0.5% of	cy and line cy and line rated Vou rated lout t On: On. O A.	earity: +/-0. earity: +/-0. t. Output Off:	5% of rate	d lout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control	ATED FROM TI		0~100%, C 0~100%, C 0~5V or 0- 0~5V or 0- VUT) Power sup Maximum CV/CC Mo Maximum	~5/10KΩ f ~10V, user ~10V, user pply output Voltage: 3 nitor. Oper Sink Curre	full scale, u selectable selectable t monitor. 0V. Maxim n collector ent: 10mA.	user selectal user selectal . Accuracy: . Accuracy: Open colled um Sink Cu	ble. Accura ble. Accura +/-0.5% of +/-0.5% of tor. Outpu rrent: 10m On. CV mo	cy and line cy and line rated Vou rated lout t On: On. O A. de: Off. Ma	earity: +/-0. earity: +/-0. t. Dutput Off:	5% of rated Off. Itage: 30V.	d lout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) 5.SIGNALS AND CONTROLS (ISOL 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal	ATED FROM TI		0~100%, C 0~100%, C 0~5V or O- 0~5V or O- PUT) Power sup Maximum CV/CC Mo Maximum Enable/Di: Remote: 0	~5/10KΩ f ~10V, user ~10V, user ~10V, user pply output Voltage: 3 nitor. Oper Sink Curre sable analo ~0.6V or sl	full scale, u selectable selectable t monitor. 0V. Maxim n collector ent: 10mA. og prograr hort. Local	ser selectal ser selectal . Accuracy: . Accuracy: Open collectum Sink Cu . CC mode: mming con: : 2~30V or c	ble. Accurate bl	cy and line cy and line rated Vou rated lout t On: On. O A. de: Off. Ma	earity: +/-0. earity: +/-0. t. Output Off: aximum Vo	Off. Itage: 30V.	d lout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOL 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal	ATED FROM TI	 HE OUTP 	0~100%, C 0~100%, C 0~5V or O- 0~5V or O- PUT) Power sup Maximum CV/CC Mo Maximum Enable/Di Remote: 0 Analog pr	~5/10KΩ f ~10V, user ~10V, user pply output Voltage: 3 ink Curre sable analo ~0.6V or sl ogrammin	full scale, u selectable selectable t monitor. 0V. Maxim nent: 10mA. og prograr hort. Local g control r	iser selectal iser selectal iser selectal . Accuracy: . Accuracy: Open collec um Sink Cu . CC mode: mming con : 2~30V or c monitor sig	ble. Accura ble. Accura +/-0.5% of +/-0.5% of	cy and line cy and line rated Vou rated lout t On: On. O A. de: Off. Ma trical sign.	earity: +/-0. earity: +/-0. t. Output Off: aximum Vo	Off. Itage: 30V.	d lout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOL 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal	ATED FROM TI	 HE OUTF 	0~100%, C 0~100%, C 0~5V or O- 0~5V or O- PUT) Power sup Maximum CV/CC Mo Maximum Enable/Di Remote: 0 Analog pr Maximum	2~5/10KΩ f ~10V, user ~10V, user pply output Voltage: 3 nitor. Oper Sink Curre sable anale ~0.6V or sl ogrammin Voltage: 3	full scale, u selectable selectable t monitor. OV. Maxim nent: 10mA. og prograr hort. Local g control r	iser selectal iser selectal iser selectal . Accuracy: . Accuracy: Open collec um Sink Cu . CC mode: mming com : 2~30V or c monitor sig	ole. Accura ole. Accura +/-0.5% of +/-0.5% of	cy and line cy and line rated Vou rated lout t On: On. O A. de: Off. Ma trical sign: collector. F A.	earity: +/-0. earity: +/-0. t. Output Off: aximum Vo	Off. Itage: 30V.	d lout.			
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 (ISOL 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	ATED FROM TI	 HE OUTP 	0~100%, C 0~100%, C 0~5V or O- 0~5V or O- O-5V or O-5V or	o~5/10KΩ f ~10V, user ~10V, user ~10V, user voltage: 3 nitor. Oper Sink Curre sable anald ~0.6V or sl ogrammin Voltage: 3 sable PS of	full scale, u selectable selectable t monitor. 0V. Maxim n collector ent: 10mA. og prograr hort. Local g control r 0V. Maxim utput by el	iser selectal iser selectal iser selectal . Accuracy: . Accuracy: Open collection Sink Cu . CC mode: mming cont : 2~30V or comonitor sig um Sink Cu lectrical sig	ole. Accura ble. Accura +/-0.5% of +/-0.5% of tor. Outpu rrent: 10m On. CV mo crof by elec ppen. In al. Open rrrent: 10m nal or dry mal or dry	cy and line cy and line rated Vou rated lout t On: On. C A. de: Off. Ma trical sign collector. R A.	earity: +/-0. earity: +/-0. t. Output Off: aximum Vo	Off. Itage: 30V.	d lout.			
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 (ISOL 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	ATED FROM TI		0~100%, C 0~100%, C 0~5V or O- 0~5V or O- D-SV or O- D-	o-5/10KΩ fi ~10V, user ~10V, user ~10V, user oply output Voltage: 3 nitor. Opei Sink Curre sable analo ~0.6V or sl ogrammin Voltage: 3 sable PS of short, 2~3	t monitor. over the selectable selectable selectable the selectabl	iser selectal iser selectal . Accuracy: . Accuracy: Open colled ium Sink Cu . CC mode: mming con: : 2~30V or contitor sig um Sink Cu lectrical sig 1. User selectal	ble. Accurate the	cy and line cy and line rated Vou rated lout t On: On. O. A. de: Off. Ma trical sign.	earity: +/-0. earity: +/-0. t. Output Off: aximum Vo	Off. Itage: 30V.	d lout.			
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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 (ISOL 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	ATED FROM TI		0~100%, C 0~100%, C 0~5V or 0- 0~5V or 0- UT) Power sup Maximum CV/CC Mo Maximum Enable/Di Analog pr Maximum Enable/Di 0~0.6V or Enable/Di Output Of	2~5/10KΩ 1 ~10V, user ~10V, user ~10V, user ply output Voltage: 3 nitor. Ope Sink Curre sable anale ~0.6V or sl ogrammin Voltage: 3 sable PS on short, 2~3 sable PS on	full scale, u selectable selectable over the control of the selectable over the color of the selectable the color of the selectable the color of the selectable the selectable over the color of the selectable the selectable over the color of the selectable the selectable over the selectable the selectable	iser selectal iser selectal iser selectal . Accuracy: . Accuracy: Open collectium Sink Cu CC mode: mming con: 2~30V or or monitor sigum Sink Culectrical sign. User selectical sign type to the selectrical sign type type type type type type type type	ble. Accura ble. Accura ble. Accura +/-0.5% of +/-0.5% of	cy and line cy and line cy and line rated Vou rated lout t On: On: O A . de: Off. Ma trical sign collector: F A . contact. contact.	earity: +/-0. earity: +/-0. t. Output Off: eaximum Vo al or dry co	Off. Itage: 30V. intact.	d lout.			
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 (ISOL 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	ATED FROM TI		0~100%, C 0~100%, C 0~5V or 0- 0~5V or 0- 0~	2~5/10KΩ 1 ~10V, user ~10V, user ~10V, user ply output Voltage: 3 nitor. Ope Sink Curre sable anale ~0.6V or sl ogrammin Voltage: 3 sable PS on short, 2~3 sable PS on	full scale, u selectable selectable selectable with the selectable of the selectable sel	iser selectal iser selectal iser selectal . Accuracy: . Accuracy: . Accuracy: . Open colled um Sink Cu CC mode: mming con: 2~30V or consists of sink Cu CL with Cu	ble. Accura ble. Accura ble. Accura +/-0.5% of +/-0.5% of	cy and line cy and line cy and line rated Vou rated lout t On: On: O A . de: Off. Ma trical sign collector: F A . contact. contact.	earity: +/-0. earity: +/-0. t. Output Off: eaximum Vo al or dry co	Off. Itage: 30V. intact.	d lout.			
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 (ISOL 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	ATED FROM TI		0~100%, C 0~100%, C 0~5V or 0- 0~6V or 0- 0~0.6V or 0- 0~0.0V or 0- 0~0.0V or 0- 0~0.0V or 0- 0~0.0V or	2~5/10 KΩ the 10V, user 10VV, user 10VV	full scale, use selectable selectable selectable to the selectable	iser selectal iser selectal iser selectal iser selectal . Accuracy: . Accuracy: . Accuracy: . Open collectium Sink Cu CC mode: mming com: 2~30V or comming com: 2~30V or comming com: 2	ble. Accuration of the Accurat	cy and line cy and line cy and line rated Vou rated lout t On: On. C A. de: Off. Ma trical sign. collector. F A. contact. c. contact. pen. litage 25V.	earity: +/-0. earity: +/-0. t. Dutput Off: eaximum Vo al or dry co temote: On Maximum mput voltage	Off. Itage: 30V. Intact. Local: Off	d lout.			
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 (ISOL 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	ATED FROM TI		0~100%, C 0~100%, C 0~100%, C 0~5V or 0- 0~6V or supplies of the control of	2~5/10 KΩ 16 ~10V, user 10V, u	full scale, use selectable selectable selectable to monitor. 100 Maximum nollector ent: 10mA. og programhort. Local g control 100 Maximutput by el 00 or oper uttput by el or short. Oggrammable er).	iser selectal iser selectal iser selectal. Accuracy: Accuracy: Open colled is	ble. Accuration of the Accurat	cy and line cy and line cy and line rated Vou rated lout t On: On. C A. de: Off. Ma trical sign. collector. F A. contact. c. contact. pen. litage 25V.	earity: +/-0. earity: +/-0. t. Dutput Off: eaximum Vo al or dry co temote: On Maximum mput voltage	Off. Itage: 30V. Intact. Local: Off	d lout.	n.		
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) 5.Gutput current monitor (*15) 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 sign	ATED FROM TI		0~100%, C 0~100%, C 0~100%, C 0~5V or 0- 0~5V or 0- UT) Power sup. Maximum CV/CC Mo Maximum Enable/Di Remote: 0 Analog pr Maximum Enable/Di 0~0.6V or Enable/Di 0~0.6V or Enable/Di Two open (shunted! Maximum Maximum Maximum Maximum Maximum	No.5/10KΩ the 10V, user value of the 10V, use	full scale, uselectable selectable selectable to monitor. OV. Maxim n collector entire 10m. Appropriate 10m. Maxim program over 10m. Maxim utput by eloy or short. Over 10m. Ove	iser selectal iser selectal iser selectal. Accuracy: . Accuracy: Open collection Sink Cum Sin	oble. Accuration of the control of t	cy and line cy and line cy and line rated Vou rated lout t On: On. C A. de: Off. Ma trical sign. collector. F A. contact. c. contact. pen. litage 25V.	earity: +/-0. earity: +/-0. t. Dutput Off: eaximum Vo al or dry co temote: On Maximum mput voltage	Off. Itage: 30V. Intact. Local: Off	d lout.	n.		
B.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output voltage monitor 5.Output current monitor (*15) 5.In Power supply OK #1 signal 2.CV/CC signal B.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal 5.INTERLOCK (ILC) control 7.Programmed signals B.TRIGGER IN / TRIGGER OUT sign	ATED FROM TI		0~100%, C 0~100%, C 0~100%, C 0~5V or 0- 0~5V or 0- 0~5V or 0- 0 Ensole Observation Power sup Maximum Enable/Di Remote: 0 Analog pr Maximum Enable/Di 0~0.6V or Enable/Di Output 0 Two open (shunted it Maximum Maximum Maximum Maximum Min delay By electric	2~5/10KΩ the 10V, user 2~10V,	full scale, use selectable selectable selectable to the selectable	iser selectal iser selectal iser selectal. Accuracy: Accuracy: Open collection Sink Cu. CC mode: mming com: 2~30V or dry mge = 0.8V. I/ positive eras. ~30V or dry	oble. Accuration of the control of t	cy and line cy and line cy and line rated Vou rated lout t On: On. C A. de: Off. Ma trical sign. collector. F A. contact. c. contact. pen. litage 25V.	earity: +/-0. earity: +/-0. t. Dutput Off: eaximum Vo al or dry co temote: On Maximum mput voltage	Off. Itage: 30V. Intact. Local: Off	d lout.	n.		
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8.lout readback resolution % of rated outputcurrent PROTECTIVE FUNCTIONS V 1.Foldback protection §	0.01%		8:88 3 %	8:883%	8:883%	0.011%	8:888%	0.006%	8:88 2 %	8:883%	0.011%	Q ₂ 008
PROTECTIVE FUNCTIONS V 1.Foldback protection Q		0.00270	0.00370	0.00470	0.00370	0.005%	0.00670	0.01%	0.00270	0.004%	0.005%	0 008
1.Foldback protection 8												
1.Foldback protection 8		30	40	60	80	100	150	200	300	600	1000	1500
	Just put chut											
	Output shut Presetable: I											
	Dutput shut	-down. I	Reset by AC	input recy	cle in auto	start mode	, by Power	Switch, by	OUTPUT I	outton, by i	rear panel	or by comr
3.Over-voltage programming range V	1~24	2~36	2~44.1	F ((1F	F 00.3	F 110.2F	F 165.37	F 220 F	F 220.7F	F ((1 F	F 1212.70	5~1653.75
4.Over-voltage programming accuracy				5~66.15	5~88.2	5~110.25	5~105.37	5~220.5	5~330.75	5~661.5	5~1212./5	5~1653./5
	-/-1% of rat											
6.Over temperature protection B	revents fro	m _t adjus	ing Vout b	elow limit.	Does not a	apply in an	alog progra	amming.				
	huts down											
	revents ad						yriog updf	button, by	ondition y rear pane	l or by com	nmunicatio	on.
FRONT PANEL												
1.Control functions M	Aultiple opt	ions wit	h 2 Encode	rs.								
	/out/lout/P											
	OVP/UVL/U\			,								
	rotection F			IIVD F.I.	thack OC	ENIA II C						
						· ·						
	Communica				AN, RS232	, KS485, US	R or Option	nal commu	ınication ir	nterface.		
O	Output ON/	OFF. Fro	nt Panel Lo	ck.								
Co	Communica	tion Fun	ctions - Sel	ection of B	aud Rate,	Address, IP	and comm	unication	language.			
	Analog Con									ammina		
								-	progre			
	Analog Mon							UV.				
	out: 4 digit/											
	out: 4 digits											
3.Front Panel Buttons Indications O	DUTPUT ON	, ALARM	, PREVIEW,	FINE, COM	MUNICATI	ON, PROTE	CTION, CO	NFIGURAT	ION, SYSTE	M, SEQUEN	NCER.	
	/oltage, Cur communica									Safetstart, I	FOIGDACK V	//I, Kemote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature 0	~50°C, 100	% load.										
	30~85°C.											
zistorage temperature	20~90% RH	(no con	densation)									
5.Operating namically	0~95% RH											
4.Storage numbers						20/ /100				1500		
			3000m), ou 00ft (12000		nt derating	2%/100m	or Ta derai	ing I°C/IC	ium above	1500m.		
	Non-operati											
MECHANICAL			internal fa	ans. Airflow	direction:	From from	t panel to p	oower supp	oly rear.			
MECHANICAL 1.Cooling Fo	lon-operati	ooling by	/ internal fa	ns. Airflow	direction:	From fron	t panel to p	ower supp	oly rear.			
MECHANICAL 1.Cooling Fc 2.Weight Kg Le	orced air co	ooling by				From fron	t panel to p	ower supp	oly rear.			
MECHANICAL 1.Cooling Fc 2.Weight Kg Lc 3.Dimensions (WxHxD) mm W	orced air co ess than 25 V: 423, H: 13	ooling by 5. 32.5, D: 6	528.5. Refer	to outline	drawing.			oower supp	oly rear.			
N N N N N N N N N N	Forced air co ess than 25 V: 423, H: 13 MIL-810G, m	ooling by 5. 32.5, D: 6 nethod 5	528.5. Refer 14.6, Proce	to outline dure I, test	drawing.			oower supp	oly rear.			
MECHANICAL 1. Cooling Fc 2. Weight Kg Le 3. Dimensions (WxHxD) mm W 4. Vibration M	orced air co ess than 25 V: 423, H: 13	ooling by 5. 32.5, D: 6 nethod 5	528.5. Refer 14.6, Proce	to outline dure I, test	drawing.			oower supp	oly rear.			
N N N N N N N N N N	Forced air co ess than 25 V: 423, H: 13 MIL-810G, m	ooling by 5. 32.5, D: 6 nethod 5	528.5. Refer 14.6, Proce	to outline dure I, test	drawing.			oower supp	oly rear.			
N N N N N N N N N N	Forced air co ess than 25 V: 423, H: 13 MIL-810G, m ess than 20	ooling by 5. 32.5, D: 6 nethod 5 OG, half s	528.5. Refer 14.6, Proce ine, 11mS.	to outline dure I, test Unit is unp	drawing. condition acked.	Annex C - :		oower supp	oly rear.			
MECHANICAL 1.Cooling FC 2.Weight Kg Le 3.Dimensions (WxHxD) mm W 4.Vibration M 5.Shock Le SAFETY/EMC 1.Safety standards U	Forced air co ess than 25 W: 423, H: 13 MIL-810G, m ess than 20	ooling by 5. 32.5, D: 6 nethod 5 OG, half s	528.5. Refer 14.6, Proce ine, 11mS.	to outline dure I, test Unit is unp	drawing. condition acked.	Annex C - :	2.1.3.1					
MECHANICAL 1.Cooling FC 2.Weight Kg Le 3.Dimensions (WxHxD) mm W 4.Vibration M 5.Shock Le SAFETY/EMC 1.Safety standards U	Forced air co ess than 25 W: 423, H: 13 MIL-810G, m ess than 20	ooling by 5. 32.5, D: 6 nethod 5 OG, half s	528.5. Refer 14.6, Proce ine, 11mS.	to outline dure I, test Unit is unp	drawing. condition acked.	Annex C - :	2.1.3.1			n Hazardou	15.	No. 11
N N N N N N N N N N	Forced air co ess than 25 W: 423, H: 13 MIL-810G, m ess than 20 JL61010-1, Vout≤50V M	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 500V Mo	528.5. Refer 14.6, Proce ine, 11mS. No.61010-1 utput, J1, J2 dels: Outpu	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, tt & J8 (sen	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz	Annex C	2.1.3.1 communic	ation optic 5, J6, J7 & J	ins) are Noi 9 (commu	n Hazardou nication op	is.	Non Hazar
N N N N N N N N N N	Forced air co. Less than 25 V: 423, H: 1: MIL-810G, m Less than 20 JL61010-1, 0 /out<50V M S0SVouts-15 /out<50V M	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 600V Mo lodels: In	No.61010-1 utput, J1, J2 dels: Outpu	to outline dure I, test Unit is unp , IEC61010- 2, J3, J4, J5, tt & J8 (sen ut & J8 (ser	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz	Annex C	2.1.3.1 communic	ation optic 5, J6, J7 & J	ins) are Noi 9 (commu	n Hazardou nication op ns): 4242VE	is. otions) are l	Non Hazaro
N N N N N N N N N N	Forced air concess than 25 W: 423, H: 13 MIL-810G, m Less than 20 JL61010-1, Vout≤50V M: 00±50V M: 00±50V M: 00±650V M: 0	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 500V Moo lodels: In	528.5. Refer 14.6, Proce ine, 11mS. No.61010-1 utput, J1, J2 dels: Outpu iput – Outp	to outline dure I, test Unit is unp , IEC61010- 2, J3, J4, J5, it & J8 (sen	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz: nse), J1, J2,	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J	communic 12, J3, J4, J 6, J7 & J9 (c	ation optic 5, J6, J7 & J	ins) are Noi 9 (commu ation optio	ns): 4242V[DC 1min,	
N N N N N N N N N N	Forced air co ess than 25 W: 423, H: 13 MIL-810G, m ess than 20 JL61010-1, 0 /out≤50V M out≤50V M out≤50V M out≤50V Gout≤15 /out≤50V M	cooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 500V Mo lodels: In lode 2835 100V Mo	No.61010-1 utput, J1, J2 dels: Outpu put – Outpu SVDC 1min. dels: Input	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, t & J8 (sen ut & J8 (sen	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz nse), J1, J2,	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J	2.1.3.1 communic J2, J3, J4, J 6, J7 & J9 (0 4, J5, J6, J7	ation optic 5, J6, J7 & J communic & J9 (com	ns) are Noi 9 (commu ation optio municatior	ns): 4242V(n options): 4	DC 1min, 4242VDC 1	min,
N N N N N N N N N N	ion-operati forced air cc ess than 25 V: 423, H: 1: MIL-810G, m ess than 2C UL61010-1, (fout<50V M pput - Grou jov <vout<15 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<18 Jov10vt<</vout<15 	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: Of lodels: In lodels: In lodels: In lodels: lose) (sense)	No.61010-1 utput, J1, J2 dels: Outpu put – Outp dels: Input – J1, J2, J3, J	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, it & J8 (sen ut & J8 (sen Output & 4, J5, J6, J7	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz nse), J1, J2,	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J	2.1.3.1 communic J2, J3, J4, J 6, J7 & J9 (0 4, J5, J6, J7	ation optic 5, J6, J7 & J communic & J9 (com	ns) are Noi 9 (commu ation optio municatior	ns): 4242V(n options): 4	DC 1min, 4242VDC 1	min,
N N N N N N N N N N	Forced air co cess than 25 V: 423, H: 13 WILL-810G, m cess than 2C UL61010-1, / Yout≤50V M nput - Grou i0V≤Vout≤15 Voutes 4: /8	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 CSA22.2 Iodels: O footh Mo lodels: In ind: 2835 100V Mo lodels: In ind: 2835	No.61010-1 utput, J1, J2 dels: Outpu put – Outp SVDC 1min. dels: Input – J1, J2, J3, J	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, It & J8 (sen ut & J8 (sen — Output & 4, J5, J6, J7	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz- nse), J1, J2, J8 (sense), & J9 (comi	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J	2.1.3.1 communic J2, J3, J4, J 6, J7 & J9 (c 4, J5, J6, J7 options): 8	ation optic 5, J6, J7 & J communica & J9 (com 350VDC 1m	ons) are Noi 9 (commu ation optio municatior nin, Output	ns): 4242Vl n options): 4 : & J8 (sense	DC 1min, 4242VDC 1 e) - Ground	min, d: 1500VDC
N N N N N N N N N N	Forced air co cess than 25 V: 423, H: 13 WILL-810G, m cess than 2C UL61010-1, / Yout≤50V M nput - Grou i0V≤Vout≤15 Voutes 4: /8	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 CSA22.2 Iodels: O footh Mo lodels: In ind: 2835 100V Mo lodels: In ind: 2835	No.61010-1 utput, J1, J2 dels: Outpu put – Outp SVDC 1min. dels: Input – J1, J2, J3, J	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, It & J8 (sen ut & J8 (sen — Output & 4, J5, J6, J7	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz- nse), J1, J2, J8 (sense), & J9 (comi	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J	2.1.3.1 communic J2, J3, J4, J 6, J7 & J9 (c 4, J5, J6, J7 options): 8	ation optic 5, J6, J7 & J communica & J9 (com 350VDC 1nr	ons) are Noi 9 (commu ation optio municatior nin, Output	ns): 4242Vl n options): 4 : & J8 (sense	DC 1min, 4242VDC 1 e) - Ground	min, d: 1500VDC
N MECHANICAL 1.Cooling Fr.	Forced air co cess than 25 V: 423, H: 13 WILL-810G, m cess than 2C UL61010-1, / Yout≤50V M nput - Grou i0V≤Vout≤15 Voutes 4: /8	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 CSA22.2 Iodels: O footh Mo lodels: In ind: 2835 100V Mo lodels: In ind: 2835	No.61010-1 utput, J1, J2 dels: Outpu put – Outp SVDC 1min. dels: Input – J1, J2, J3, J	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, It & J8 (sen ut & J8 (sen — Output & 4, J5, J6, J7	drawing. condition acked. -1, EN61010 J6, J7, J8 (s se) are haz- nse), J1, J2, J8 (sense), & J9 (comi	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J	2.1.3.1 communic J2, J3, J4, J 6, J7 & J9 (c 4, J5, J6, J7 options): 8	ation optic 5, J6, J7 & J communica & J9 (com 350VDC 1nr	ons) are Noi 9 (commu ation optio municatior nin, Output	ns): 4242Vl n options): 4 : & J8 (sense	DC 1min, 4242VDC 1 e) - Ground	min, d: 1500VDC
N MECHANICAL 1.Cooling Fr.	Forced air college in the college in	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 600V Mo odels: In ind: 2835 100V Mo (sense) - ind: 2835 600V M (sense) - ind: 2835	No.61010-1 utput, JT, JZ dels: Output UT, JT, JZ dels: Output UT, JT, JZ dels: Houtput UT, JZ, J3, J3, J3, J3, J3, J3, J3, J3, J3, J3	to outline dure I, test Unit is unp , IEC61010. , J3, J4, J5, it & J8 (sen ut & J8 (sen ut & J8, J5, J6, J7 t — Output t 4, J5, J6, J7 t — Output t 4, J5, J6, J7	drawing. condition acked. -1, EN61014 16, J7, J8 (see) are haz- see) are haz- nsee), J1, J2, -J8 (sense), & J9 (comi & J8 (sense & J9 (comi	O-1. O-1. Sylvanton (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 8	ation optic 5, 16, 17 & 1 ommunice & 19 (com 350VDC 1 m 7 and 19 (c 1275VDC 1	ons) are Noi 9 (communation option munication in, Output ommunica min, Output	ns): 4242VE n options): 4 : & J8 (sense ation option at & J8 (sen	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun	min, d: 1500VDC DC 1min, nd: 2500VD
N MECHANICAL 1.Cooling	Forced air cc. ess than 25 Vs. 423, H. 1: MIL-810G, m ess than 2C JL61010-1, (fout≤50V M ops Yout≤50V Y	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 6500V Mondels: Hind: 2835 100V Mo	No.61010-1 utput, J1, J2, dels: Output, J1, J2, dels: Output, J1, J2, dels: Output, Output — Output, J1, J2, J3, J, VVDC 1 min. Output, J1, J2, J3, J, VVDC 1 min. Models: Input, J1, J2, J3, J, WDC 1 min. Models: Mo	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, It & J8 (sen ut & J8 (sen Output & 4, J5, J6, J7	drawing. condition acked. -1, EN61011 JG, J7, J8 (s se) are haz nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense & J9 (comi	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J munication), J1, J2, J3, munication	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 8 14, 15, 16, 17 options): 1 13, 14, 15, 16, 13	ation optic 5, 16, 17 & 1 communica & J9 (com: 350VDC 1m 7 and J9 (c 1275VDC 1	ins) are Noi 9 (commu ation optio municatior nin, Output ommunica min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD
N N N N N N N N N N	Forced air college of the season of the seas	ooling by 5. 32.5, D: 6 nethod 5 G, half s CSA22.2 lodels: O 500V Mo lodels: In 100V Mo (sense) - ind: 2835 (sense) - ind: 2835 t ≤1500V di (sense) - (sense) - ind: (sens	No.61010-1 utput, J1, J2 dels: Outpu put—Outp VDC 1 min. dels: Input- - - J1, J2, J3, J VVDC 1 min. Models: Input - J1, J2, J3, J VVDC 1 min. Models: Input	to outline dure I, test Unit is unp , IEC61010 , IEC	drawing. condition acked. -1, EN61011 JG, J7, J8 (s se) are haz nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense & J9 (comi	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J munication), J1, J2, J3, munication	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 8 14, 15, 16, 17 options): 1 13, 14, 15, 16, 13	ation optic 5, 16, 17 & 1 communica & J9 (com: 350VDC 1m 7 and J9 (c 1275VDC 1	ins) are Noi 9 (commu ation optio municatior nin, Output ommunica min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD
N MECHANICAL 1.Cooling	Forced air co. Seess than 25 W: 423, H: 1; MIL-810G, m. Sess than 20 JL61010-1, v. Sess than 20 JL61010-1, v. JL61010-	ooling by 5. 32.5, D: 6 nethod 5 OG, half s CSA22.2 lodels: O 600V Mo nd: 2835 100V Mo (sense) - nd: 2835 600V M (sense) - nd: 2835 £≤1500V (sense) - nd: 2835 L≤1500V (sense) - nd: 2835	No.61010-1 utput, J1, J2 dels: Outpu pyDC 1 min. dels: Input- J1, J2, J3, J VDC 1 min. odels: Input- J1, J2, J3, J VDC 1 min.	to outline dure I, test Unit is unp , IEC61010: 2, 13, 14, 15, 16 & (sen ut & 18 (sen ut & 18 (sen ut & 18, 15, 16, 17 t — Output: 4, 15, 16, 17 t — Output: 4, 15, 16, 17 out — Outp 4, 15, 16, 17	drawing. condition acked. -1, EN61011 J6, J7, J8 (sese) are haz nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense & J9 (comi ut & J8 (ser & J9 (comi	O-1. ense) & J9 (ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, munication), J1, J2, J3, municatior unicatior	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 8 14, 15, 16, 17 options): 1 13, 14, 15, 16, 13	ation optic 5, 16, 17 & 1 communica & J9 (com: 350VDC 1m 7 and J9 (c 1275VDC 1	ins) are Noi 9 (commu ation optio municatior nin, Output ommunica min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD
MECHANICAL 1.Cooling Fr 2.Weight Kg Le 3.Dimensions (WxHxD) mm W 4.Vibration M 5.Shock SAFETY/EMC 1.Safety standards UI 1.1.Interface classification Vr 66 1.2.Withstand voltage Inf 1.2.Withstand voltage	Forced air cc. Less than 25 Less than 25 Less than 25 Less than 25 Less than 20 Les	ooling by 5. 32.5, D: € nethod 5 OG, half s CSA22.2 lodels: O fo00V Mor lodels: In lodels: H l	No.61010-1 utput, J1, J2, dels: Output, J1, J2, dels: Output, J1, J2, dels: Output, J1, J2, J3, J1, J2, J3, J1, J2, J3, J1, J2, J3, J3, J3, J3, J3, J3, J3, J3, J3, J3	to outline dure I, test Unit is unp , IEC61010 , J3, J4, J5, It & J8 (sen ut & J8 (sen ut & J8 (sen ut & J, J5, J6, J7) t = Output & J8, J6, J7 t = Output & J8, J6, J7 t = Output & J8, J6, J7 put - Output & J8, J6, J7	drawing. condition acked. -1, EN61011 J6, J7, J8 (sese) are haz nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense & J9 (comi ut & J8 (ser & J9 (comi	O-1. ense) & J9 (ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, munication), J1, J2, J3, municatior unicatior	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 8 14, 15, 16, 17 options): 1 13, 14, 15, 16, 13	ation optic 5, 16, 17 & 1 communica & J9 (com: 350VDC 1m 7 and J9 (c 1275VDC 1	ins) are Noi 9 (commu ation optio municatior nin, Output ommunica min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD
N N N N N N N N N N	Forced air concess than 25 of the season and the se	cooling by 5. 32.5, D: 6 32.5, D:	No.61010-1 utput, J1, J2 dels: Outpu put—Outp VVDC 1 min. dels: Input- J1, J2, J3, J3 VVDC 1 min. Models: Inpu J1, J2, J3, J3, VVDC 1 min. Models: Input J1, J2, J3, J3, VVDC 1 min. Models: Input Strial environ when the strial environ strial environ	to outline dure I, test Unit is unp , IEC61010 2, J3, J4, J5, 1 & J8 (sen ut & J8 (sen ut & J8, J5, J6, J7 t + Output & J, J5, J6, J7 put - Output 4, J5, J6, J7 put to Gro	drawing. condition acked. -1, EN61011 J6, J7, J8 (se) are haz nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense), & J9 (comi & J8 (sense), & J9 (comi ut & J8 (ser	O-1. ense) & J9 (ardous, J1, J3, J4, J5, J J1, J2, J3, J1, J2, J3, munication ise), J1, J2, municatior	2.1.3.1 communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): E 14, 15, 16, 17 options): I 13, 14, 15, 16	ation optics, 16, 17 & 15 5, 16, 17 & 15 communica & J9 (commissown 19 (commis	ins) are Noi 9 (commu ation optio municatior nin, Output ommunica min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD
N MECHANICAL	Forced air cc. Less than 25 Less than 25 Less than 25 Less than 25 Less than 20 Les	ooling by 5. 32.5, D: 6 method 5 OG, half s CSA22.2 lodels: O 6500 V Mo 1600 Mo 1600 V MO 1600	No.61010-1 Utput, J1, J2 dels: Outpo Holders: Outpo Holders: Outpo Holders: Outpo Holders: Holders: Holde	to outline dure I, test Unit is unp , IEC61010, 2, 13, 14, 15, 14, 15, 16, 17 t — Output & 4, 15, 16, 17 t — Output & 4, 15, 16, 17 t — Output & 1, 15, 16, 17 put to Groomment. Annent. Annent. Annent. Annent. Annent.	drawing. condition acked1, EN61011 J6, J7, J8 (sesse), ze haz- nse), J1, J2, J8 (sense), & J9 (comi & J8 (sense & J9 (comi ut & J8 (sense & J9 (comi ut & J8 (sense & J9 (comi ut & J8 (sense & J9 (comi	O-1. O-1. ense) & J9 (ense) & J9 (ense) & J9 (ense) & J9, J4, J5, J J1, J2, J3, J4, J5, J munication (), J1, J2, J3, munication (), J1, J2, Munication (), J1, J2, Ensemble of the control of the cont	communic 12, 13, 14, 1 6, 17 & 19 (c 4, 15, 16, 17 options): 1 14, 15, 16, 1 options): 1 13, 14, 15, 16 options): 1	ation optics 5, 16, 17 & 1 communice 8, 19 (com: 850VDC 1n 7 and 19 (c 1275VDC 1 5, 17 and 15 2000VDC 1	ons) are Noi 9 (communation option munication nin, Output ommunica min, Outpu 0 (commun min, Outpu	ns): 4242VE n options): 4 : & J8 (sense ition option ut & J8 (sen ication opt	DC 1min, 4242VDC 1 e) - Ground ns): 4242VE se) - Groun tions): 4000	min, d: 1500VDC DC 1min, nd: 2500VD

- NOTES: **: Coming soon
- *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V models; 0.1% of rated output voltage for 40V~1500V models. *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V models; 0.1% of rated output voltage for 40V~1500V model.

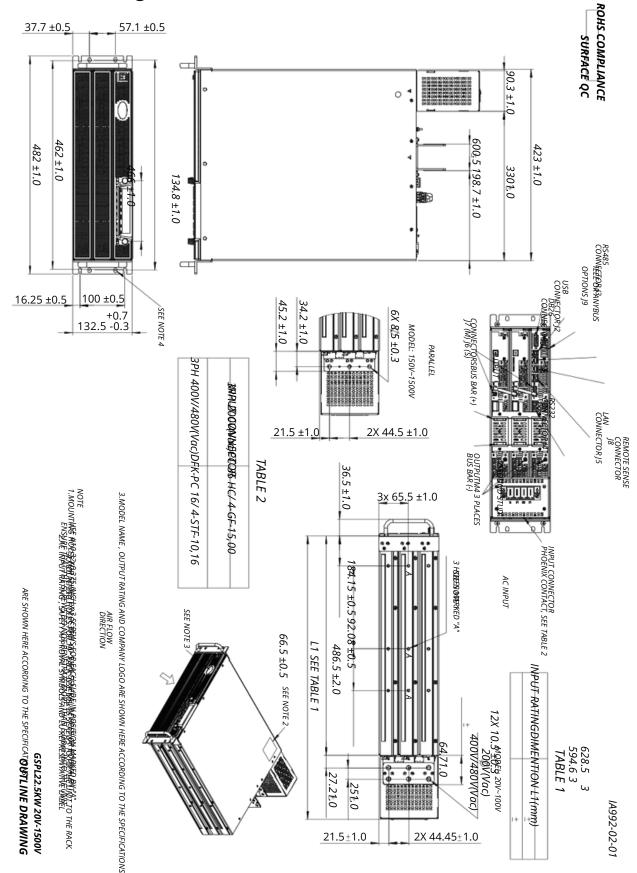
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.

 *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 380V-480Vac (50/60Hz) for 3-Phase 200V models and 380V-480Vac (50/60Hz) for 3-Phase 200V models: At 200Vac input voltage, 3-Phase 480V models and 580-480Vac (50/60Hz) for 3-Phase 200V models: At 200Vac (50/60Hz) for 3-Phase 200V models and 580Vac (50/60Hz) for 3-Phase 200V models: At 200Vac (50/60Hz) for 3-Phase 200V models and 580Vac (50/60Hz) for 3-Phase 200V models and 580Vac (50/60Hz) for 3-Phase 200V models: At 200Vac (50/60Hz) for 3-Phase 200V models and 580Vac (50/60Hz) for 3-Phase 2

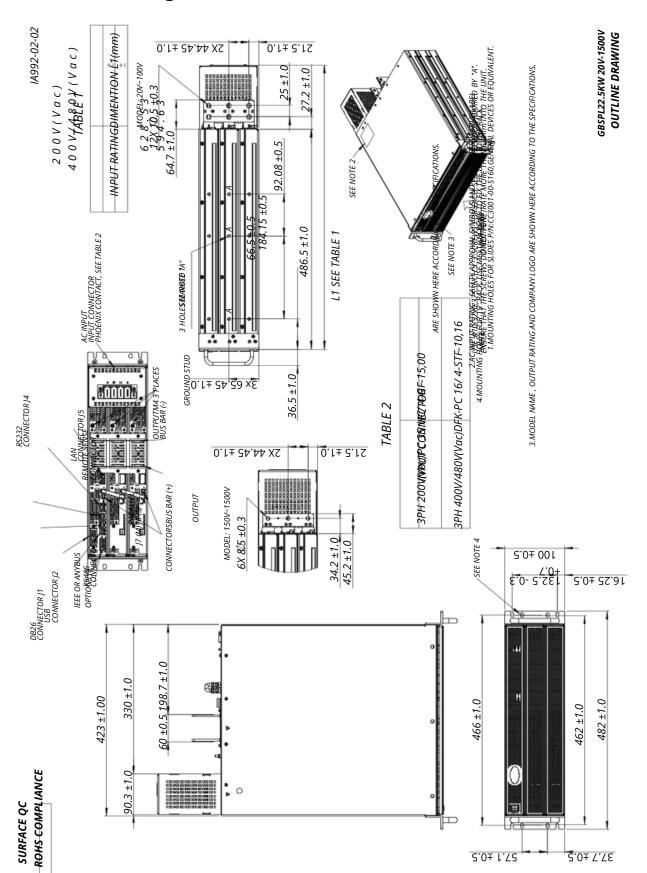


Outline Drawing GENESYS™ GSPL22.5kW





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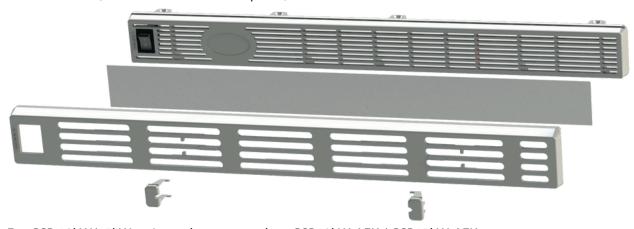
Front Panel Air Filter Assembly

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 panet)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) 2000m)

Filter Foam Technical Specifications

- Material: reticulated polyurethane foam
- Thickness:3.8 mm
- Porosity: 45ppi
- Operating Temperature Range: 0 $\mathring{\mathbb{C}}$ to +60 $\mathring{\mathbb{C}}$ Storage Temperature Range: -40 $\mathring{\mathbb{C}}$ to +85 $\mathring{\mathbb{C}}$ 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: right-hand 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)



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