



GENESYS

Programmable DC Power Supplies
Configurable High Power System
GSPS 30kW/45kW/60kW - 19" Rack in 20U

! 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 **GENESYS™** Scalable Power System with GSP15kW SERIES assembly are compact, efficient and flexible DC power supplies.

Features include:

- Wide Range of popular worldwide AC inputs:
 3ø 208VAC (170VAC ~ 265VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 4500A
- 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
- Parallel Systems (up to 120kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- · Five year warranty for the Power Supply

Applications

GENESYS™ power supplies have been designed to meet the demands of a wide variety of applications.

- Test & Measurement systems
- Component Device Testing
- Industrial Automation and process control
- Semiconductor Processing & Burn-In
- Aerospace & Satellite Testing
- Automotive Component & HIL Testing
- Medical Imaging
- · Magnets, RF Magnifiers and Beam Steering
- 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.



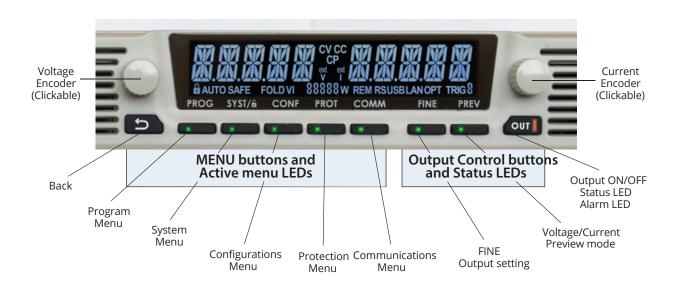




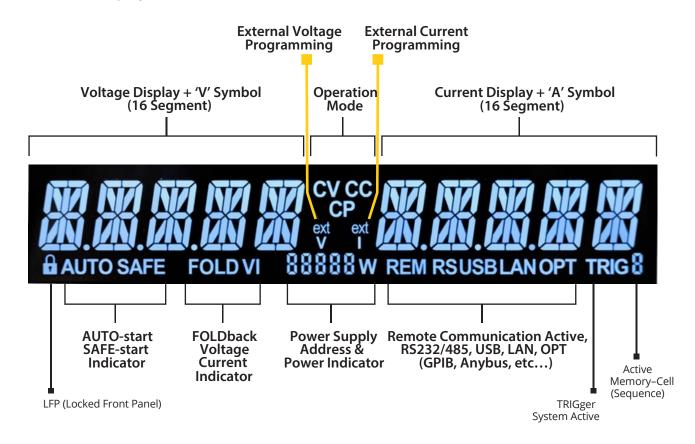




Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators

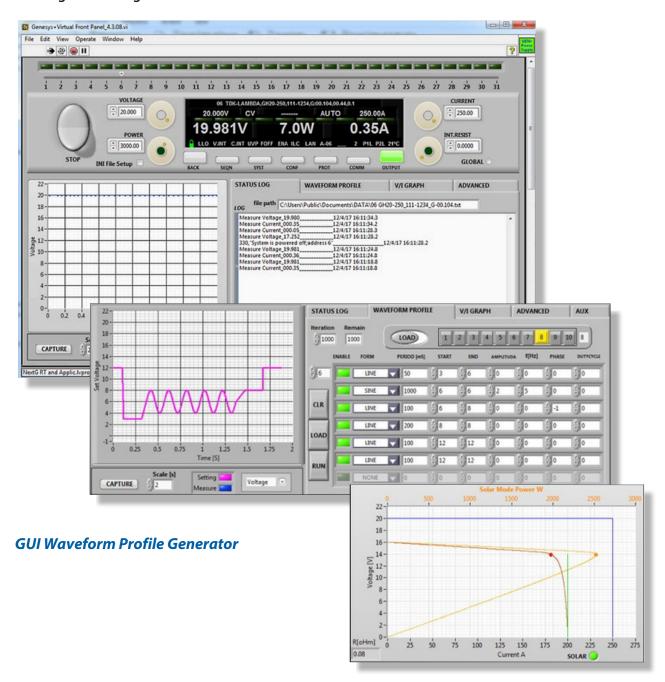




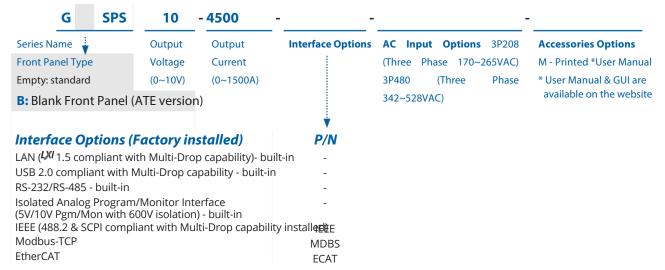
Graphical User Interface

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

- 1. Control and monitor up-to 31 units with "Address" bar
- 2. Front panel set-up menu control (PROGram, SYSTem, CONFiguration, PROTection and COMMnication)
- 3. Informative "Parameters" status bar
- 4. Individual unit and Global command control
- 5. Data logging including errors, events and recovery
- 6. Realtime Graph and Waveform creator, store/load sequence.
- 7. Solar array mode calculate MPP (Max Peak Power) for solar array.
- 8. Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals.
- 9. Remote communication state LOC, REM, LLO.
- 10. Programmed signals 1&2



How to order GSPS 60kW - Configurable Power solu-



Power (kW)	30kW	45kW	60kW
Voltage (VDC)		Current (A)	
0~10V	0~3000	-	0~4500
0 ~20V	0~1500	0~2250	0~3000
0 ~30V	0~1020	0~1530	0~2040
0~40V	0 ~750	0~1125	0~1500
0 ~50V	0~600	0~900	0~1200
0 ~ 60V	0 ~510	0 ~765	0~1020
0 ~80V	0~390	0~585	0~780
0~100V	0 ~30 0	0 ~ 450	0~600
0~150V	0 ~20 4	0 ~30 6	0~408
0~200V	0~150	0~225	0~300
0 ~30 0V	0~102	0~153	0 ~20 4
0~400V	0~78	0~117	0~156
0 ~50 0V	0~60	0~90	0~120
0~600V	0~51	0~76.5	0~102



60kW High Power System Series Specifications

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

OUTPUT RATING		10-4500	20-3000	30-2040	40-1500	50-1200	60-1020	80-780	100-600	150-408	200-300	300-204	400-156	500-120	600-102
1.Rated output voltage (*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	Α	4500 (*3	3000	2040	1500	1200	1020	780	600	408	300	204	156	120	102
3.Rated output power	KW	45.0	60.0	61.2	60.0	60.0	61.2	62.4	60.0	61.2	60.0	61.2	62.4	60.0	61.2
INPUT 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)					265Vac, 47 528Vac, 47				10/160/1	201/20)					
2.Maximum Input 3-Phase, 200V models: current at 100% load3-Phase, 480V models:		212A @ 2 110.4A @	200Vac.	1613. 342	520 vac, 47	-03112 (CC	overs 300/-	+00/413/4	40/400/4	ovac).					
3.Power Factor (Typ.)		0.94@20	00/380Va	c, rated out	tput power										
4.Efficiency (minimum) (*5)	%	8	37	88	8	19					90				
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*6)		0.01% of	rated outp	out voltage			•					•	•	•	
2.Max. Load regulation (*7)		0.01% of	01% of rated output voltage +5mV.												
3.Temperature coefficient			OPPM/OC from rated output voltage, following 30 minutes warm-up.												
4.Temperature stability			.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temperature.												
5.Warm-up drift		Less than	1 0.05% of	rated outp	ut voltage	+2mV ove	r 30 minut	es followin	g power or	١.					
6.Remote sense compensation/wire (*8)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
7.Up-prog. response time (*9)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
8.Down-prog. Full load (*9) response time: No load (*10)	mS	50 300	50 600	80 800	80 900	80 950	80 1000	100 1200	100 1900	100 2000	100 2500	100 3000	150 4000	200 4000	200 3000
9.Transient response time		Output se	et point: 10	0~100%, L	over within ocal sense to and inclu					10~90%	of rated ou	tput curre	nt.		
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*6)		0.05% of	rated out	out currer	t. 0.08% (of rated or	itout curre	nt. 10V~1	00V mode	ls: 100PPI	M/OC from	<u> </u>			
2.Max, Load regulation (*11)		rated out	put curren	t, following	30 minute	es warm-u	p.								
3.Temperature coefficient					OC from rat Bhrs. inter						ne. load 8	k			
4.Temperature stability		temperat	ure. 10V~1	100V mode	els: Less th	an +/-0.25	5% of rated	output cu	rrent over	30 minute	s following	3			$\overline{}$
5.Warm-up drift		power on		000V mode	ls: Less th	an +/-0.15	% of rated	output cu	rrent over	30 minute	s following	3			

ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)

1.Vout voltage programming	 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.
2. Iout voltage programming (*12)	 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.
3.Vout resistor programming	 0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.
4.Iout resistor programming (*12)	 0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.
5.Output voltage monitor (*19)	 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.
6.Output current monitor (*12) (*19)	 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Iout.

SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)

1.Power supply OK #1 signal	 Power supply output monitor. Open collector. Output On: On. Output Off. Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.	
2.CV/CC signal	 CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.	
3.LOCAL/REMOTE Analog control	 Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.	
4.LOCAL/REMOTE Analog signal	 Analog programming control monitor signat. Open collector. Remote. On. Local. Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.	
5.ENABLE/DISABLE signal	 Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.	
6.INTERLOCK (ILC) control	 Enable/Disable PS output by electrical signal or dry contact. Output ON: 0~0.6V or short. Output OFF: 2~30V or open.	
7.Programmed signals	 Two open drain programmable signals. Maximum voltage 25V. Maximum sink current 100mA (shunted by 27V zener).	
8.TRIGGER IN / TRIGGER OUT signals	 Maximum tow levet input voltage = 0.80. Minimum nigh levet input voltage = 2.50. Maximum high level input = 50 positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Min delay between 2 pulses 1ms.	
9.DAISY IN/SO control signal	 By electrical Voltage: 0~0.6V/2~30V or dry contact. 4~5V = OK, 0V (500Ω impedance) = Fail.	
10.DAISY OUT/PS OK #2 signal	 4-5v - 0x, 0v (300sz impedance) - rait.	

FUNCTIONS AND FEATURES

1.Parallel operation	 Consult with manufacturer.
2.Constant power control	 Limits the output power to a programmed value. Programming via the communication ports or the front panel.
3.Output resistance control	 Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.
4.Slew rate control	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.
5.Arbitrary waveforms	Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via communication ports or front panel.



PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*16) (*17) Interfaces	PROGRAMMING AND READBACK	(USB, LAN, RS232/485, C	Optional (*16) (*17)) Interfaces)
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PROGRAMMING AND READBACI																1
1 Vout programming (*4.2)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	1
Nout programming accuracy (*13) Input programming accuracy (*12)				tput volta												l
3.Vout programming resolution				out currer												l
4.Iout programming resolution				- 1												
5.Vout readback accuracy				utput cur												
6.Tout readback accuracy (*12)				out currer												
7.Vout readback resolution	% of rated	0.2% 011	ateu out	Jul Currer	π.											
7.Vour readback resolution	output voltage	0.011%	0.006%	0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%	
8.Iout readback resolution	% of rated output current	0.003%	0.004%	0.005%	0.007%	0.01%	0.01%	0.00139	6 0.0029	6 0.003%	0.0049	6 0.005%	0.007%	0.009%	0.01%	
PROTECTIVE FUNCTIONS		10	20	30	40	50	60	80	100	150	200	300	400	500	600	
1.Foldback protection		Output sh	nut-dowr	when po	wer supp	oly chang	es mode	from CV	or Power	Limit to C	C mode	or from Co	C or Powe	r Limit to	CV mode	. User presetab
O O O O O O O O O O O O O O O O O O O	V															unication.
2.Over-voltage protection (OVP)]
3.Over -voltage programming range		0.5~12	1~24	2~36	2~44.1	5~55.12	5 5~66.:	55~88.2	5~110.2	5 5~165	37 5~22	0.5 5~33	0.35441	5~551.2	5 5~661	5
4.Over-voltage programming accuracy		+/-1% of	rated ou	tput volta	ge	•	•									ĺ
5.Output under voltage limit (UVL)		Prevents	from adi	usting Vo	ıt helow	limit Doe	es not an	oly in ana	log nrogr	amming	Preset h	front na	nel or con	nmunicati	on nort	ĺ
6.Over temperature protection				utput. Aut				-	108 p. 08.	u		, ironi pai			on port.	l
									iring und	or voltog	o oonditie	n n				
7.Output under voltage protection (UVP)		Research :	ACHAPUL	Febyble4F	autosta	rt'mode,	By Prower	'Switch,'	dy dout pu	PT BULLON	by rear	panel or b	y commu	ınication.		
FRONT PANEL																·
1.Control functions		Multiple o	ptions w	vith 2 Enc	oders.											ĺ
		Vout/Tout	Power I	Limit man	ual adius	et .										İ
				nual adju		,,,										İ
				ons - OVP.		D Foldba	ack OCI	ENA TIC								ĺ
				unctions -						l						ĺ
						III OI LAIN	, K5232,	K5485, U	SB or Op	tional cor	mmunica	tion interi	ace.			i
				ront Pane		f D	I Data A	dalara a TE			tan landa					l
				unctions -												l
				nctions -							<u> 2/10KΩ p</u>	rogramm	ing.			
				ınctions -						LOV.						
2.Display				uracy: 0.0												
3.Front Panel Buttons Indications		-		uracy: 0.2						CONITIO	LIDATIO	LCVCTEN	4 CEQUE	UCED		
4.Front Panel Display Indications				RM, PREV Power, CV											/I Pamot	
				RS/USB/I									cioidi i, i v	oraback v	1, 11011101	
5.Circuit breaker		The AC st	apply for	the Powe	r System	unit is p	rotected	by 80A ci	rcuit brea	kers. The	ese CB's	are acces	sible on t	he front p	anel of th	e cabinet.
ENVIRONMENTAL CONDITIONS																1
1.Operating temperature (*3)																
2.Storage temperature		0~500C,	100%	load25	~650C.	20~90%	RH (no	conden	sation).	10~95%	RH (no					ĺ
3.Operating humidity		condensa	ation). O	perating:	10000ft	(3000m), output	current	derating	2%/100	m or Ta					İ
		derating :	10C/100	m above	2000m.		•			-						ĺ
4.Storage humidity				0000ft (12												1
5.Altitude (*14)		-			-											
MECHANICAL																1
1.Cooling																1
2.Weight				by power	supply i	nternal fa	ans. Airflo	w directi	on: From	cabinet f	ront pane	el to rear.				l
3.Dimensions (WxHxD)	Kg	Less than														
4.Vibration (Package transportation)	mm			With Cast					947), D:	902.						l
5.Shock & Drop (Package transportation)			. ,	ethod: AS												ĺ
		ISTA 1H:	2014, D	rop test M	lethod: A	STM D52	76 free f	all; Rotati	on edge	drop test	: ASTM D	6179 Rot	ational dr	ор.		j
SAFETY/EMC																
1.Safety standards 1.1.Interface classification		TEC 6101	0-1-201	.0, IEC 61	010-1-20	110/AMP	1.2016									l
1.1.1meriace classification				: Output,				8 (sense)	& J9 (co	mmunica	tion optic	ns) are N	lon Hazar	dous.		
		60≤Vout:	≤600V M	lodels: Ou	tput & J8	3 (sense)	are haza	rdous, J1	, J2, J3, J	14, J5, J6	, J7 & J9	(commur	nication o	ptions) are		zardous.
1.2.Withstand voltage				s: Input – 835VDC 1		J8 (sens	e), J1, J2	l, J3, J4, i	J5, J6, J7	' & J9 (co	mmunica	ition optic	ons): 424:	2VDC 1mi	n,	
		Output &	J8 (sens	Models: 1 1 se) - J1, J 835VDC 1	2, J3, J4,											0VDC 1min,
		100V <v0< td=""><td>ut≤600\</td><td>/ Models:</td><td>Input – C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></v0<>	ut≤600\	/ Models:	Input – C											
		Input - G	round: 2	835VDC 1	min.		/ & J9 (C	UITITIUNIC	ation opt	ions): 12	/ SVDC TI	ıııı, Outp	ut & Jö (S	ense) - G	iouna: 25	00VDC 1min.
2.EMC standards (*15) (*18)				ndustrial												1
2.1.Conducted emission (*18)				ndustrial												1
2.2.Radiated emission (*18)		IEC/EN6:	1204-3 I	ndustrial	environn	nent, Ann	ex H tabl	e H.3 and	HH.4, FC	Part 15	A, VCCI	A.				ĺ
																l



- *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: Model: 10V Max. ambient temperature is 40°C.
- *4: For cases where conformance to various safety standards (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: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

 *7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

 *8: The maximum voltage on the power supply terminals must not exceed the rated voltage.

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

 *10: From 90% to 10% of Rated Output Voltage.

 *11: For load voltage change, equal to the unit voltage rating, constant input voltage.

 *12: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *13: Measured at the sensing point.
- *13: Measured at the sensing point.
 *14: For 10V model, Ta derating 2°C/100m.
 *15: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
 *16: Max. ambient temperature for IEEE is 40C.
 *17: For 10V model only: Max. output current for IEEE is 4500A up to 40C

- *18: EMC specs based on GSP15kW series.
- *19: For steady state only.



45kW High Power System Series Specifications

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

OUTPUT RATING			20-225	30-153	40-112	50-900	60-765	80-585	100-45	150-30	200-22	300-15	3 400-11	500-90	600-76.
1.Rated output voltage (*1)	V		20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	А		2250	1530	1125	900	765	585	450	306	225	153	117	90	76.5
3.Rated output power	KW		45.0	45.9	45.0	45.0	45.9	46.8	45.0	45.9	45.0	45.9	46.8	45.0	45.9
INPUT CHARACTERISTICS	V		20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire+grou	nd (*3)			nodels: 17 nodels: 34						40/4/0/	100\(\chi_a\)				
244 : 7 10 51 2221			200Vac.	100ets: 34	12~528V8	ac, 47~63	HZ (Cove	15 380/4	00/415/4	40/460/	480Vac).				
2.Maximum Input 3-Phase, 200V models: current at 100% load3-Phase, 480V model	s:		380Vac												
3.Power Factor (Typ.)		0.94@	200/380	Vac, rated	output p	ower.									
4.Efficiency (minimum) (*4)	%	1	37	88	8	39					90				
CONSTANT VOLTAGE MODE	V		20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*5)		0.01%	1% of rated output voltage.												
2.Max. Load regulation (*6)		0.01%	0.01% of rated output voltage +5mV.												
3.Temperature coefficient		50PPM/	50PPM/OC from rated output voltage, following 30 minutes warm-up.												
4.Temperature stability		0.01%	of rated V	out over 8	3hrs inter	val follow	ing 30 mi	nutes wa	ırm-up. C	onstant li	ine, load	& temper	ature.		
5.Warm-up drift		Less tha	n 0.05%	of rated of	output vo	ltage +2n	nV over 30) minutes	s followin	g power o	on.				
6.Remote sense compensation/wire (*7)	V		2	5	5	5	5	5	5	5	5	5	5	5	5
7.Up-prog. response time (*8)	mS		30	30	30	50	50	50	50	50	50	50	100	100	100
8.Down-prog. Full load (*8) response time: No load (*9)	mS		50 600	80 800	80 900	80 950	80 1000	100 1200	100 1900	100 2000	100 2500	100 3000	150 4000	200 4000	200 3000
11 11 ()		<u> </u>													3000
9.Transient response time		Output	set point:	oltage to 10~1009 or models	%, Local s	ense.						% of rate	d output c	urrent.	
CONSTANT CURRENT MODE	V		20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*5)		0.05%	of rated	output	current.	0.08% o	f rated o	output ci	urrent. 2	0V~100V	models	:			
2.Max. Load regulation (*10)		100PPM	1/OC fror	m rated	output c	urrent, f	ollowing	30 minu	ites warr	n-up. 15	0V~600\	/			
3.Temperature coefficient				OC from 8hrs. in											
A Tanana anatawa atah ilita				V~100V											
4.Temperature stability				g power											
5.Warm-up drift				ninutes fo					,						
ANALOG PROGRAMMING AND M	ONITODI	NG (ISO	ATEDE	DOM TH	IE OLITE	IIT\									

ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)

1.Vout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.
2.Iout voltage programming (*11)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.
3.Vout resistor programming		0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.
4.Iout resistor programming (*11)		0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.
5.Output voltage monitor (*16)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.
6.Output current monitor (*11) (*16)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.
SIGNALS AND CONTROLS (ISOLA	TED ERON	A THE OUTPUT)

1.Power supply OK #1 signal		Power supply output monitor. Open collector. Output On: On. Output Off: Off.
		Maximum Voltage: 30V. Maximum Sink Current: 10mA.
2.CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V.
		Maximum Sink Current: 10mA.
3.LOCAL/REMOTE Analog control	==-	Enable/Disable analog programming control by electrical signal or dry contact.
		Remote: 0~0.6V or short. Local: 2~30V or open.
4.LOCAL/REMOTE Analog signal		Analog programming control monitor signal. Open collector. Remote: On. Local: Off.
		Maximum Voltage: 30V. Maximum Sink Current: 10mA.
5.ENABLE/DISABLE signal		Enable/Disable PS output by electrical signal or dry contact.
		0~0.6V or short, 2~30V or open. User selectable logic.
6.INTERLOCK (ILC) control		Enable/Disable PS output by electrical signal or dry contact.
		Output ON: 0~0.6V or short. Output OEE: 2~30V or open.
7.Programmed signals	==-	Two open drain programmable signals. Maximum voltage 25V. Maximum sink current 100mA
O TRICCER IN / TRICCER OUT diameter		(shunted by 27V zener).
8.TRIGGER IN / TRIGGER OUT signals		Maximum low level input voltage = 0.8V. Minimum high level input voltage = 2.5V.
		Maximum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum.
		Min delay between 2 pulses 1ms.
9.DAISY_IN/SO control signal		By electrical Voltage: 0- 9.6V/2-30V or dry contact.
10.DAISY_OUT/PS_OK #2 signal		12-5V = OK OV (5000 imperlance) = Fail
FUNCTIONS AND FEATURES		

	-	
1.Parallel operation		Consult with manufacturer.
2.Constant power control		Limits the output power to a programmed value. Programming via the communication ports or the front panel.
3.Output resistance control		Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.
4. Slew rate control		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.
5.Arbitrary waveforms		Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via communication ports or front panel.



DD00DA14447			1.05 -		*** ()											
PROGRAMMING AND READBACK		N, RS232,					- / ^	00	400	450	202	200	1 400		/00	I
Vout programming converse (*4.2)	V	0.050/	20	30	40	50	60	80	100	150	200	300	400	500	600	ĺ
L.Vout programming accuracy (*12)		0.05% of														ĺ
2. Iout programming accuracy (*11)		0.3% of ra														1
3.Vout programming resolution		0.002% 0														ĺ
1.1out programming resolution		0.002% 0														ĺ
o.Vout readback accuracy		0.05% of														ĺ
5.Tout readback accuracy (*11)		0.2% of ra	ated outp	ut currer	ıt.											ĺ
7.Vout readback resolution	% of rated output voltage		0.006%	0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%	
8.Iout readback resolution	output current		0.005%	0.007%	0.009%	0.00129	6 0.0029	0.002%	0.003%	0.004%	0.005%	0.007%	0.009%	0.00129	0.0014	16
PROTECTIVE FUNCTIONS		\vdash	20	30	40	50	60	80	100	150	200	300	400	500	600	ĺ
L.Foldback protection		Output ch	-													Hear processab
·	 V															. User presetabl unication.
2.Over-voltage protection (OVP)		Output 311	ut down	. Neset b	y AC IIIpu	i recycle	iii autost	art mode	by rowe	ii Switcii,	by COTT	O i buttoi	ii, by ieai	parietoi	by commi	arneation.
3.Over -voltage programming range			1~24	2~36	2~44.1	5~55.12	5 5~66.1	55~88.2	5~110.2	5 5~165	37 5~22	0.5 5~33	0.35441	5~551.2	5 5~661.	5
1.Over-voltage programming accuracy		+/-1% of				•	•							-	•	1
Output under voltage limit (UVL)		Prevents			_	limit Doe	s not and	ly in anal	og progra	amming	Preset hv	front nar	nel or con	nmunicat	ion port	1
o.Over temperature protection								•	-9 PI 0816			pai	.5. 51 601	a.moat	port.	ĺ
7.Output under voltage protection (UVP)		Shuts dov				-										ĺ
		Prevents	adjustme	nt of Vou	it below l	imit. P.S	output tu	ns Off du	ring unde	er voltage	conditio	n.				
FRONT PANEL		Reset by A	ac input i	recycle ir	autostai	T mode,	by Power	Switch, h	y OUTPU	u button,	ny rear r	anel or b	y commu	inication.		i
		Multinia -	ntion	i+b 2 F= -	odora											í
Control functions		Multiple c														ĺ
		Vout/Iout				it.										ĺ
		OVP/UVL/														ĺ
		Protection							-							l
		Communi				n of LAN,	RS232, I	RS485, U	SB or Opt	ional con	<u>nmunicat</u>	ion interf	ace.			l
		Output O					15 : :									l
		Communi														l
		Analog Co									/10KΩ pr	ogrammi	ing.			l
Display.		Analog M								.UV.						l
2.Display		Vout: 4 di														1
3.Front Panel Buttons Indications		Iout: 4 dig														l
on range buttons indications		OUTPUT (ON, ALAR	M, PREV	IEW, FIN	E, COMM	UNICATI	ON, PRO	TECTION	CONFIG	URATION	I SYSTEM	ı, sequei	NCER.		ĺ
1.Front Panel Display Indications		Voltage, ((commun											etstart, Fo	oldback V	/I, Remot	e
5.Circuit breaker		l	ipply for	the Powe	er System	unit is p	otected I	y 3x80A					1x40A+1	.x80A circ	cult break	ers for 380Vac I
ENIVIDONIMENTAL CONDITIONS		I nese CB	s are acc	ว ว เ ม เ เ เ	711 tile 110	iii paliel (or trie Cdl	mict.								i
ENVIRONMENTAL CONDITIONS																
.Operating temperature		0~5000	100% 10:	ad -25~6	550C. 20	~90% PL	(no con	lensation	1)							ı
Storage temperature		10~95%				70 70 RF	1 (110 0011	acrisatiol	·/·							1
3.Operating humidity						tout co	rent de	ating 20	(/100m	or Ta	deratins					l
1.Storage humidity			n above		5111), OU	.pur cur	. one uer	umig Zi	o, 100111	J1 1α	acrainig					ĺ
5.Altitude				2000111. 000ft (1 2	2000m)											ĺ
			8. 70	_ 00/t (±2												1
																ĺ
MECHANICAL Cooling																ı
Cooling		Forced air	r cooling	by power	r supply i	nternal fa	ıns. Airflo	w direction	n: From	cabinet fr	ront pane	l to rear				1
B.Dimensions (WxHxD)	Kg	Less than									p - 14					1
l.Vibration (Package transportation)	mm	W: 553, H		Vith Cast	ors; With	out casro	rs cabine	t hight is	947), D:	902.						l
Shock & Drop (Package transportation)		ISTA 1H:							-,, -							ĺ
									on edge d	drop test:	ASTM D	5179 Rota	ational dr	op.		l
SAFETY/EMC			-							-						i
Safety standards																
1.Interface classification		IEC 6101	0-1:201), IEC 61	010-1:20	010/AMD	1:2016									ĺ
		Vout≤50\						(sense)	& J9 (cor	nmunicat	tion optio	ns) are N	on Hazar	dous.		ĺ
		60≤Vout≤	≤600V M	odels: Ou	itput & J8	3 (sense)	are hazar	dous, J1,	J2, J3, J	4, J5, J6,	J7 & J9 ((commun	ication o	ptions) ar	e Non Haz	ardous.
L.2.Withstand voltage		Input - Gi	round: 28	35VDC 1	Lmin.									2VDC 1m s): 4242V		
		Output & Input - G	J8 (sense round: 28	e) - J1, J: 335VDC 1	2, J3, J4, Lmin.	J5, J6, J	7 & J9 (co	mmunic	ation opti	ons): 850	OVDC 1mi	in, Output	t & J8 (se	ense) - Gro	ound: 150	0VDC 1min,
		Output &	J8 (sens	e) - J1, J	2, j3, j4,										12VDC 1n round: 25	iin, 00VDC 1min.
		Input - G	OUNG フト													•
		Input - Gi			environm	nent										Į.
			L204-3 Ir	ndustrial	environm		ex H tahl	H.1.EC	C Part 15	-A, VCCI-	Α					
2.EMC standards (*13) (*15) 2.1.Conducted emission (*15) 2.2.Radiated emission (*25)		IEC/EN61	L204-3 Ir L204-3 Ir	ndustrial ndustrial	environm environm	ent, Ann										



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 (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.

 *4: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 480V: At 380Vac input voltage. With rated output power.

 *5: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

- *6: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- *7: The maximum voltage on the power supply terminals must not exceed the rated voltage.
- *8: From 10% to 90% of Rated Output Voltage at rated resistive load.

- *9: From 90% to 10% of Rated Output Voltage.
 *10: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *11: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 *12: Measured at the sensing point.
- *13: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
- *14: Max. ambient temperature for IEEE is 40C. *15: EMC specs based on GSP15kW series.
- *16: For steady state only.



30kW High Power System Series Specifications

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

OUTPUT RATING		10-300	020-150	030-102	40-750	50-600	60-510	80-390	100-30	150-20	1200-15	300-10	2 400-78	500-60	600-51
1.Rated output voltage (*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	А	3000(*3) 1500	1020	750	600	510	390	300	204	150	102	78	60	51
3.Rated output power	KW	30.0	30.0	30.6	30.0	30.0	30.6	31.2	30.0	30.6	30.0	30.6	31.2	30.0	30.6
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire+grou	nd (*4)	3-Phase	e, 200V m	nodels: 17	70~265Va	ic, 47~63	Hz (Cove	rs 200/23	30Vac).			•			
		3-Phase	e, 480V m	odels: 34	12~528Va	ic, 47~63	Hz (Cove	rs 380/40	00/415/4	40/460/4	480Vac).				
2.Maximum Input 3-Phase, 200V models:		106.8A	@ 200Va	c.											
current at 100% load3-Phase, 480V mode	s:	56.2A @	380Vac.												
3.Power Factor (Typ.)		0.94@:	200/380\	Vac, ratec	l output p	ower.									
4.Efficiency (minimum) (*5)	%	1	37	88	8	19					90				
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*6)		0.01%	of rated o	utput volt	age.										
2.Max. Load regulation (*7)		0.01%	of rated o	utput volt	age +5m\	٧.									
3.Temperature coefficient		50PPM/	OC from	rated out	put voltag	e, follow	ing 30 mi	nutes wa	rm-up.						
4.Temperature stability		0.01%	.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temperature.												
5.Warm-up drift		Less tha	ın 0.05%	of rated o	output vol	tage +2n	N over 3	0 minutes	followin	g power c	on.				
6.Remote sense compensation/wire (*8)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
7.Up-prog. response time (*9)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
8.Down-prog. Full load (*9)		50	50	80	80	80	80	100	100	100	100	100	150	200	200
response time: No load (*10)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
9.Transient response time		Output	set point:	10~1009	recover w %, Local s up to and	ense.					•	% of rate	d output c	urrent.	
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*6)		0.05%	of rated	output	current. (0.08%	f rated o	output cu	ırrent. 1	0V~100V	models	:			
2.Max. Load regulation (*11)					tput curre										
3.Temperature coefficient					PM/OC fro					30 minute	es warm-	-			
·		up.													
4.Temperature stability			of rated To	out over 8	3hrs. inter	rval follo	ving 30 n	ninutes w	arm-un	Constant	line, load	1			
5.Warm-up drift	l	I& tempe	erature. 1	100~1001	v models:	: Less th	an +/-U.Z	5% of ra	tea outn	ut curren	i over su	J			

1.Vout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.
2.Iout voltage programming (*12)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.
3.Vout resistor programming		0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.
4.Iout resistor programming (*12)		0~100%, 0~5/10KΩ full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.
5.Output voltage monitor (*19)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.
6.Output current monitor (*12) (*19)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.
SIGNALS AND CONTROLS (ISOLA)	TED EDON	A THE OUTDUT)

1.Power supply OK #1 signal		Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.
2.CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.
3.LOCAL/REMOTE Analog control	==-	Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.
4.LOCAL/REMOTE Analog signal		Analog programming control monitor signal. Open collector. Remote: On. Local: Off.
		Maximum Voltage: 30V. Maximum Sink Current: 10mA.
5.ENABLE/DISABLE signal		Enable/Disable PS output by electrical signal or dry contact.
		0~0.6V or short, 2~30V or open. User selectable logic.
6.INTERLOCK (ILC) control		Enable/Disable PS output by electrical signal or dry contact.
		Output ON: 0~0 6V or short. Output OEE: 2~30V or open
7.Programmed signals	==-	Two open drain programmable signals. Maximum voltage 25V. Maximum sink current 100mA (shunted by 27V zener).
8.TRIGGER IN / TRIGGER OUT signals		Maximum low level input voltage = 0.8V. Minimum high level input voltage = 2.5V. Maximum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Min delay between 2 pulses 1ms.
9.DAISY_IN/SO control signal		By electrical Voltage: 0~0.6V/2~30V or dry contact.
10.DAISY_OUT/PS_OK #2 signal		(2) steember verages of overlance) = Fail

1.Parallel operation		Consult with manufacturer.
2.Constant power control		Limits the output power to a programmed value. Programming via the communication ports or the front panel.
3.Output resistance control		Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.
4.Slew rate control	=	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.
5.Arbitrary waveforms		Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via communication ports or front panel.



PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*16) (*17) Interfaces	PROGRAMMING AND READBACK	(USB, LAN, RS232/485, C	Optional (*16) (*17) Interfaces
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PROGRAMMING AND READBACK																
1 Vaut magneting (*4.2)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
1.Vout programming accuracy (*13) 2.Iout programming accuracy (*12)		0.05% of														
3.Vout programming accuracy (12)		0.3% of r 0.002% of														}
4.Iout programming resolution		0.002%														+
5.Vout readback accuracy		0.002 % of														1
6.Tout readback accuracy (*12)		0.2% of r														+
7.Vout readback resolution	% of rated															+
	output voltage	0.011%	0.006%	0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%	
8.Iout readback resolution	% of rated output current	0.004%	0.008%	0.01%	0.00149	6 0.002%	0.002%	0.003%	0.005%	0.005%	0.0019	6 0.001%	0.00149	6 0.002%	0.002%	
PROTECTIVE FUNCTIONS		10	20	30	40	50	60	80	100	150	200	300	400	500	600	†
1.Foldback protection		Output sh Reset by		when po recycle in	wer supp autostar											. User preseta
2.Over-voltage protection (OVP)		Output si	nut-down	. Reset by	AC inpu	t recycle	in autost	art mode,	, by Powe	er Switch,	by OUT	'UT butto	n, by rear	panel or	by comm	unication.
3.Over -voltage programming range		0.5~12	1~24	2~36	2~44.1	5~55.12	5 5~66.1	55~88.2	5~110.2	5 5~165	37 5~22	0.5 5~33	D. % 5441	5~551.2	5 5~661	5
1.Over-voltage programming accuracy		+/-1% of	rated out	put volta	ge											İ
Output under voltage limit (UVL)		Prevents	from adju	ısting Vo	ıt below l	limit. Doe	es not app	oly in anal	og progr	amming.	Preset by	front par	nel or com	nmunicati	ion port.	1
o.Over temperature protection		Shuts do						•				•			-	†
7.Output under voltage protection (UVP)		Resents							lyi Bournel	PF BEILLAN	condition by rear	n Banel or b	y commu	nication.		
FRONT PANEL																-
Control functions		Multiple (ptions w	ith 2 Enc	oders.]
			t/Power L			t.										
		OVP/UVL														
								ENA. ILC								
						n of LAN,	RS232, I	RS485, U	SB or Opt	tional cor	nmunica	tion interf	ace.			
		Output O														ļ
								ddress, IP								ļ
											/10KΩ p	<u>rogrammi</u>	ng.			1
								nt Monito		_0V.						
2.Display								+/-1 cou								
3.Front Panel Buttons Indications								-/-1 count				LOVOTEN		1055		†
1.Front Panel Display Indications													I, SEQUEN		/T Damas	
4.FIOH Fallet Display Indications		(commur	ication),	RS/USB/I	_AN/Opti	onal com	municati	on interfa	ice, Trigg	er, Load/	Store Cel	l.	etstart, Fo			
5.Circuit breaker		The AC SI							circuit bi	reakers to	or 200va	2 & 2X4UF	circuit b	reakers to	or 380 va].
ENVIRONMENTAL CONDITIONS 1.Operating temperature (*3)																
2.Storage temperature		0~500C,	100% lo	ad25~6	50C. 20	~90% RF	I (no con	d 4'								Ī
3.Operating humidity		10-06%	RH (no co					aensation	1).							ł
1.Storage humidity		10.49370	(ondensat	ion).		`	densation	1).							I
						t put cur		rating 29	-	or Ta	derating					1
		Operating 10C/100	g. 10000 m above	oft (300 2000m.	Om), ou	t put cur			-	ог Та	derating					
		Operating 10C/100	g. 10000	oft (300 2000m.	Om), ou	tput cur			-	or Ta	derating					
5.Altitude (*14)		Operating 10C/100	g. 10000 m above	oft (300 2000m.	Om), ou	t put cur			-	or Ta	derating					
5.Altitude (*14) MECHANICAL L.Cooling		Operatin; 10C/100 Non ope	g. 10000 m above rating: 40	2000m. 2000m. 000ft (12	0m), ou		rent der	rating 29	6/100m							
5.Altitude (*14) MECHANICAL L.Cooling 2.Weight		Operatin; 10C/100 Non-oper	g. 10000 m above rating: 40	2000m. 2000m. 000ft (12	0m), ou		rent der		6/100m			el to rear.				
MECHANICAL Cooling Weight Dimensions (WxHxD)	 Kg	Operating 10C/100 Non-oper Forced ai	r cooling	2000m. 2000m. 000ft (12	esupply in	nternal fa	nent der	rating 29	on: From	cabinet f		el to rear.				
MECHANICAL Cooling Weight Dimensions (WxHxD) Vibration (Package transportation)	 Kg mm	Operating 10C/100 Non-oper Forced ai Less than W: 553, F	r cooling 1153Kg.	by power	supply in	nternal fa	nent der	ew direction	on: From	cabinet f		el to rear.				
MECHANICAL Cooling Weight Dimensions (WxHxD) Vibration (Package transportation)	 Kg mm	Forced ai Less than W: 553, I	r cooling 153Kg. 1: 1028 (\)	by power With Cast	supply in ors; With TM D472	nternal fa out casro	ns. Airflo	ow direction test.	6/100m on: From 947), D:	cabinet f	ront pane		ational dr	00		
MECHANICAL Cooling Weight Dimensions (WxHxD) Vibration (Package transportation)	 Kg mm	Forced ai Less than W: 553, I	r cooling 153Kg. 1: 1028 (\)	by power With Cast	supply in ors; With TM D472	nternal fa out casro	ns. Airflo	ow direction test.	6/100m on: From 947), D:	cabinet f	ront pane		ational dr	op.		
MECHANICAL Cooling Weight Dimensions (WxHxD) Vibration (Package transportation) Shock & Drop (Package transportation) SAFETY/EMC Safety standards	 Kg mm	Forced ai Less thar W: 553, H ISTA 1H:	r cooling 153Kg. 1:1028 (t 2014, Mr	by power With Cast ethod: AS op test M	esupply in ors; With TM D472 ethod: At	nternal fa out casro 8 Rando STM D52	uns. Airflo ors cabine m vibrati 76 free fa	ow direction test.	6/100m on: From 947), D:	cabinet f	ront pane		ational dr	op.		
.Altitude (*14) MECHANICALCoolingWeightDimensions (WxHxD)Vibration (Package transportation)Shock & Drop (Package transportation) SAFETY/EMC .Safety standards	 Kg mm	Forced ai Less thar W: 553, H ISTA 1H: IEC 6101	r cooling 1153Kg. 1: 1028 (1 2014, Mr 2014, Dr	by power With Cast ethod: AS op test M	esupply in ors; With TM D472 ethod: A	out casro 28 Rando STM D52	uns. Airfloors cabine m vibrati 76 free fa	ow direction et hight is on test. all; Rotation	0n: From 947), D: on edge o	cabinet f 902. drop test:	ront pane	6179 Rota				
MECHANICAL Cooling Weight Dimensions (WxHxD) Vibration (Package transportation) Shock & Drop (Package transportation) SAFETY/EMC Safety standards	 Kg mm	Forced ai Less than W: 553, H ISTA 1H: IEC 6101	r cooling 153Kg. 1: 1028 (i 2014, Mr 2014, Dr	by power With Cast ethod: AS op test M D, IEC 61: Output,	emply in ors; With TM D472 ethod: A: 010-1:20	out casro 8 Rando STM D52	uns. Airfloors cabine m vibrati 76 free fa 1:2016 J6, J7, Ji	ow direction test. all; Rotation 8 (sense)	947), D: on edge 6	cabinet f	ASTM Di	6179 Rota	ational dro	dous.	e Non Ha	ardous.
MECHANICAL L.Cooling 2.Weight B.Dimensions (WxHxD) 4.Vibration (Package transportation) 5.Shock & Drop (Package transportation) SAFETY/EMC L.Safety standards L.1.Interface classification	 Kg mm 	Forced ai Less thar W: 553, F ISTA 1H: IEC 6101 Vouts50 60≤Vout Vouts50 Input - G	r cooling 153Kg. 1:1028 (\text{1}2014, Mr. 2014, Mr. 2014, Dr. V Models V Models V Models round: 28	by power With Cast ethod: AS O, IEC 61: Output, odels: Output, 335VDC 1	supply in ors; With TM D472 ethod: A: 010-1:20 J1, J2, J3 tput & J8 Output & J	out casro 28 Rando STM D52 010/AMD 3, 34, 35, 6 (sense) J8 (sens	uns. Airflo ors cabine m vibrati 76 free fa 1:2016 J6, J7, Ji are hazar e), J1, J2	ow directions things are the set hight is on test. all; Rotation down, J1, 2, J3, J4, J4, J4, J4, J4, J4, J4, J4, J4, J4	on: From 947), D: on edge o & J9 (coi J2, J3, J	cabinet f 902. drop test: mmunica 14, J5, J6, & J9 (co	ASTM Do	ons) are N (commun tion optic	on Hazaro ication op ons): 4242	dous. otions) are	in,	ardous.
MECHANICAL 1.Cooling 2.Weight 3.Dimensions (WxHxD) 4.Vibration (Package transportation) 5.Shock & Drop (Package transportation)	 Kg mm 	Forced ai Less thar W: 553, I ISTA 1H: IEC 6101 Vout≤50 60≤Vout Vout≤50 foovsvot Output & Input - G	r cooling 153Kg. 1: 1028 (v 2014, Dr 0-1:201. V Models 600V M. V Models round: 28	by power With Cast et al. Court of the cou	esupply in supply in supply in supply in ors; With TM D472 ethod: A: 010-1:20 J1, J2, J3 tput & J8 Output & min. sput = Ot2, J3, J4, min.	out casro 28 Rando STM D52 010/AMD 3, J4, J5, 3 (sense) J8 (sense) J8 (sense)	uns. Airfloors cabine m vibrati 76 free fa 1:2016 J6, J7, J3 are hazar e), J1, J2 3 (sense) 7 & J9 (co	w direction of the state of the	on: From 947), D: on edge of 32, 33, 3 15, 36, 37 3, 34, 35, ation opt	cabinet f 902. drop test: mmunica 4, 35, 36 & 39 (co . 36, 37 & ions): 850	ASTM Dition opticion	ons) are N (commun tion optic municatio in, Outpu	on Hazaro ication op ons): 4242 on options t & J8 (se	dous. otions) are 2VDC 1mi): 4242Vi nse) - Gro	n, DC 1min, bund: 150	OVDC 1min,
MECHANICAL L.Cooling 2.Weight B.Dimensions (WxHxD) 4.Vibration (Package transportation) 5.Shock & Drop (Package transportation) SAFETY/EMC L.Safety standards L.1.Interface classification	 Kg mm 	Forced ai Less thar W: 553, I ISTA 1H: IEC 6101 Vout≤50 Go≤Vout Voutyout Unit - G GoV vot Unit - G GoV vot Unit - G Unit	r cooling 153Kg. 11028 (12014, Dr 2014, Dr 0-1:201 V Models 6600V M V Models 7600V M J8 (sens round: 28 1014, Dr 1014, Dr 1014, Dr	by power With Cast ethod: AS op test M O, IEC 61 : Output, odels: Output, of 1835VDC 19 335VDC 19	supply in ors; With TM D472 ethod: A: 010-1:20 0	out casro 8 Rando 5TM D52 010/AMD 8, J4, J5, 8 (sense) J8 (sense) J8 (sense) J8, J6, J'	nns. Airfloors cabine m vibrati 76 free fa 1:2016 J6, J7, J1 are hazar e), J1, J2 3 (sense) 7 & J9 (co	w direction of the state of the	en: From 947), D: on edge of 8 J9 (con J2, J3, J 15, J6, J7 3, J4, J5, ation opt	cabinet f 902. drop test: mmunica 4, 35, 36 & 39 (co , 36, 37 & 36, 37	ASTM Do tion optic J7 & J9 mmunica J9 (com DVDC 1m	ons) are N (communition optic nunication, Outpur	on Hazard ication op ins): 4242 in options t & J8 (se ation opti	dous. otions) are 2VDC 1mi): 4242Vi nse) - Gro ons): 424	n, DC 1min, Dund: 150	OVDC 1min,
MECHANICAL L.Cooling 2.Weight 3.Dimensions (WxHxD) 3.Vibration (Package transportation) 5.Shock & Drop (Package transportation) SAFETY/EMC L.Safety standards 1.1.Interface classification 1.2.Withstand voltage	 Kg mm	Forced ai Less thar W: 553, I ISTA 1H: IEC 6101 Vout≤50 60≤Vout Vout≤50 Cutput & Input - 6 100V < Vo Cutput & Input - 6 100V < Vo Cutput & Input - 6 100V < Vo Cutput & Input - 6 100V < Vo	r cooling 153Kg. 11028 (12014, Dr 2014, Dr 0-1:201 V Models 6600V M V Models 7600V M J8 (sens round: 28 1014, Dr 1014, Dr 1014, Dr	by power With Cast ethod: AS op test M D, IEC 61 Output, odels: Ou Thout Models: 11, 31 Models: 11, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 31, 31 Models: 9, 32 Models: 9, 31 Models: 9, 31 Models: 9, 32 Models: 9, 32 Models: 9, 32 Models: 9, 32 Models: 9, 33 Models: 9, 33 Models: 9, 33 Models: 9, 33 Models: 9, 34 Models: 9, 34 Models: 9, 34 Models: 9, 34 Models: 9, 35 Models: 9, 34 Models: 9, 35 M	supply in ors; With TM D472 ethod: A: 010-1:20 othod: out casro 8 Rando STM D52 010/AMD 8, J4, J5, 1 (sense) J8 (sense) J5, J6, J' output 8: J5, J6, J'	nns. Airfloors cabine m vibrati 76 free fa 1:2016 J6, J7, J1 are hazar e), J1, J2 3 (sense) 7 & J9 (co	w direction of the state of the	en: From 947), D: on edge of 8 J9 (con J2, J3, J 15, J6, J7 3, J4, J5, ation opt	cabinet f 902. drop test: mmunica 4, 35, 36 & 39 (co , 36, 37 & 36, 37	ASTM Do tion optic J7 & J9 mmunica J9 (com DVDC 1m	ons) are N (communition optic nunication, Outpur	on Hazard ication op ins): 4242 in options t & J8 (se ation opti	dous. otions) are 2VDC 1mi): 4242Vi nse) - Gro ons): 424	n, DC 1min, Dund: 150	0VDC 1min,	
MECHANICAL 1.Cooling 2.Weight 3.Dimensions (WxHxD) 4.Vibration (Package transportation) 5.Shock & Drop (Package transportation) SAFETY/EMC 1.Safety standards 1.1.Interface classification	 Kg mm 	Forced ai Less thar W: 553, I IEC 6101 Vouts50 60sVout Vouts50 Output & Input - G 1nput - G 1nput - G	r cooling r tooling 153Kg. 153Kg. 12014, Mr 2014, Mr 2014, Dr V Models 600V Mr V Models resulted to the control of the control of the control	by power With Cast ethod: AS op test M O, IEC 61 Output, odels: Ou Input – Says V Models: Ou Input – Says V Models: Ou Input – J Models: Ou Input –	supply in ors; With TM D472 ethod: A: 010-1:20 J1, J2, J3 tput & J8 Output & min. sput - Ot 2, J3, J4, min. sput - Ot 2, J3, J4, min. environment	out casro?8 Rando STM D52 010/AMD 3, J4, J5, 3 (sense) J8 (sens J5, J6, J'	nns. Airfloors cabine m vibrati 76 free fa 1:2016 36, 37, 31 are hazar e), 31, 32 3 (sense) 7 & 39 (co	w direction of the state of the	en: From 947), D: on edge of 8. J9 (con J2, J3, J 15, J6, J7 3, J4, J5, ation opt	cabinet f 902. drop test: mmunica 4, 35, 36 & 39 (co , 36, 37 ions): 850 5, 36, 37	ASTM Di tion optic 37 & 39 mmunica 39 (com DVDC 1m and 39 (c	ons) are N (communition optic nunication, Outpur	on Hazard ication op ins): 4242 in options t & J8 (se ation opti	dous. otions) are 2VDC 1mi): 4242Vi nse) - Gro ons): 424	n, DC 1min, Dund: 150	0VDC 1min,



- *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: Model: 10V Max. ambient temperature is 30°C. Output current derate 30A / 1°C
- *4: For cases where conformance to various safety standards (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: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

 *7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

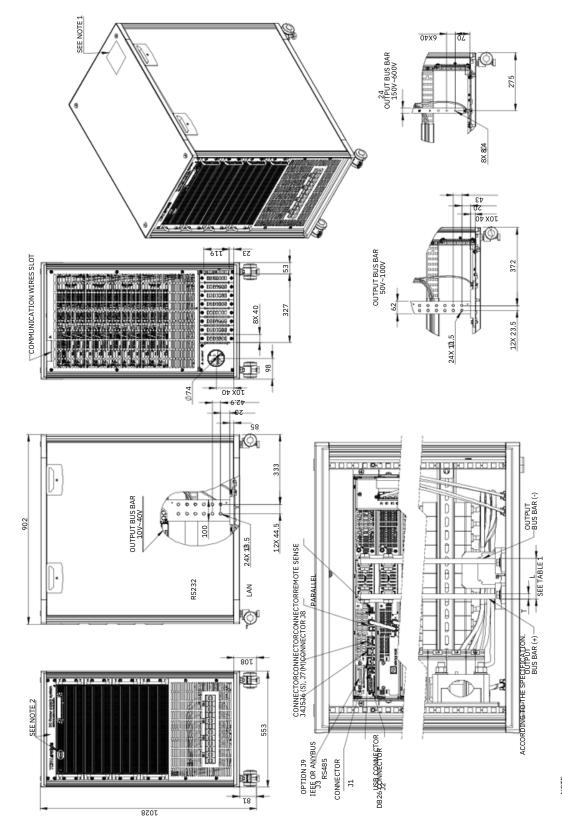
- *8: The maximum voltage on the power supply terminals must not exceed the rated voltage.

- *9: From 10% to 90% of Rated Output Voltage at rated resistive load.
 *10: From 90% to 10% of Rated Output Voltage.
 *11: For load voltage change, equal to the unit voltage rating, constant input voltage.
- *12: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *13: Measured at the sensing point.
- *13: Measured at the sensing point.
 *14: For 10V model, Ta derating 2°C/100m.
 *15: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
 *16: Max. ambient temperature for IEEE is 40C.
 *17: For 10V model only: Max. output current for IEEE is 2700A up to 40C

- *18: EMC specs based on GSP15kW series.
- *19: For steady state only.

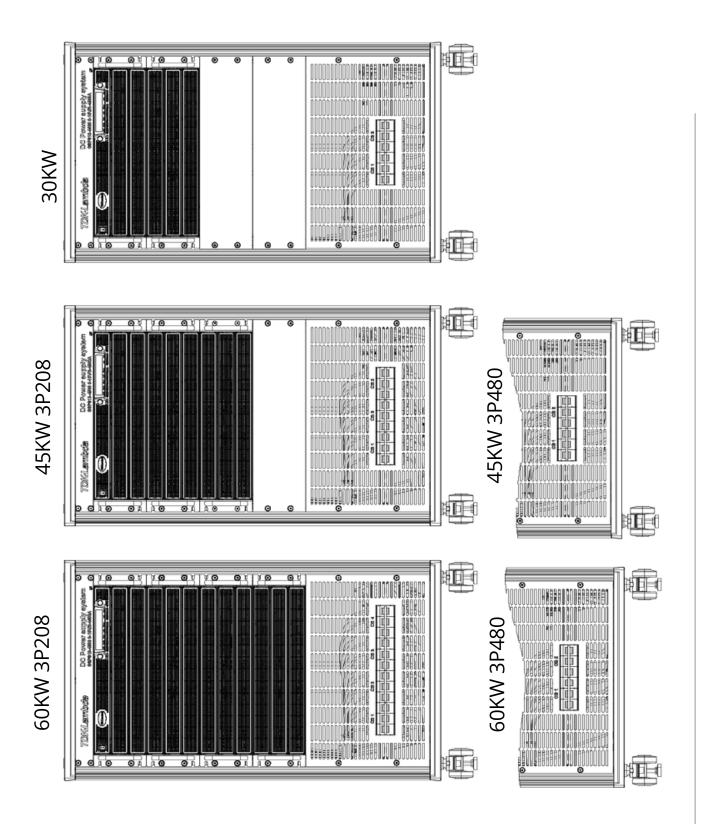


Outline Drawing **GENESYS™** GSPS Series



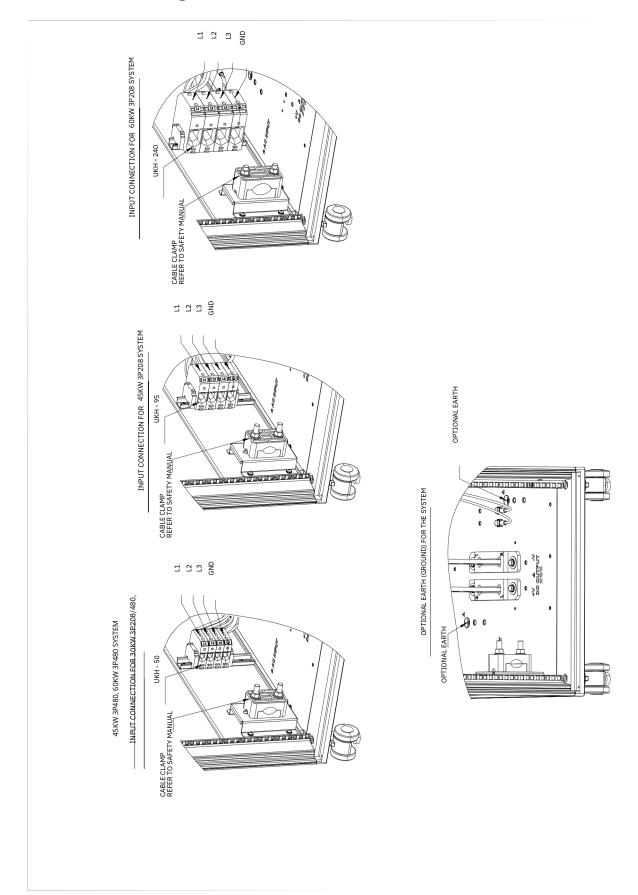
NOTE: 2.MODEL AGMERSS FOR PAGATAGETANS EBRIPARINGURGUBOURESIGERRAFERENATIVE

Outline Drawing GENESYS™ GSPS Series





Outline Drawing **GENESYS™** GSPS Series





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