



GENESYS[™] Series

Programmable DC Power Supplies 1.7kW-5kW in 1U 0-600V / 0-500A 10kW in 2U / 15kW in 3U / 0-1500A

Built-in LAN (LXI 1.5), USB, RS-232 & RS-485 Interfaces
Built-in Remote Isolated Analog Program/Monitor/Control Interface
Optional Interface: IEEE488.2 SCPI (GPIB)
Scalable Power Systems up to 20kW



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: The [™] 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 (5kW in 1U height) in 19" rack-mount
- Light-weight <7.5 kg
- Wide Range of popular worldwide AC inputs: G5kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC) G1.7kW: 1ø (85~265VAC)
- Active three-phase PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Triggering
- 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 Simulation
- Local / Remote Sensing software controlled
- Built-In Isolated Analog Program/Monitor and Control
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed profile controlled by ambient temperature and load
- Certified LabWindows[™]/CVI, LabVIEW[™], and IVI Drivers
- Optional IEEE Interface
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 20kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS2 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 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.

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G1.7kW-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

G1.7kW-5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and slave unit-to-slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- G5kW Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. (Model shown)
 AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief.
 G1.7kW Input: 85~265VAC, Single Phase, 50/60 Hz.
 AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).

GSP10kW 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

GSP10kW Rear Panel Description



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

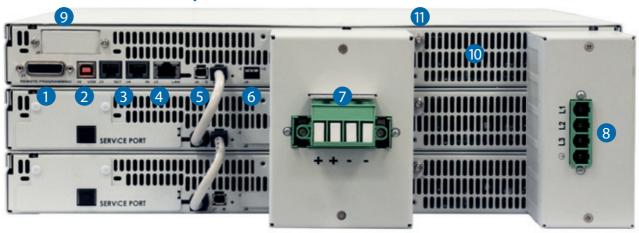
TDK-Lambda

GSP15kW Front Panel Description



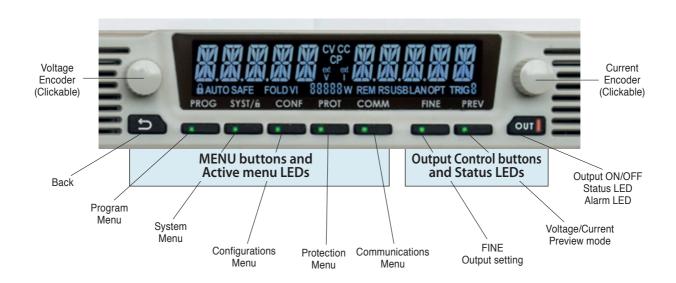
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

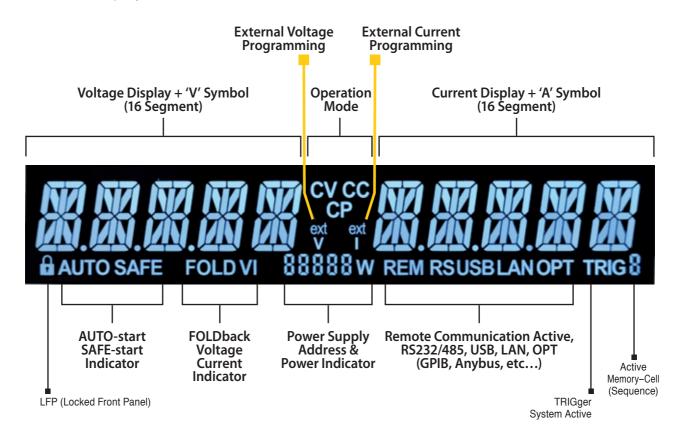


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



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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 four identical units to be connected

Total real current is programmed measured and reported by the Master. Up to four supplies operate as one.

Separates Parallel Kit available for 20kW (4 unit) systems allowing easy system setup.

Order P/N: G/P - 4U

Standard & Blank - zero stacked up to 4 units

Standard Unit - zero stacked up to 4 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.

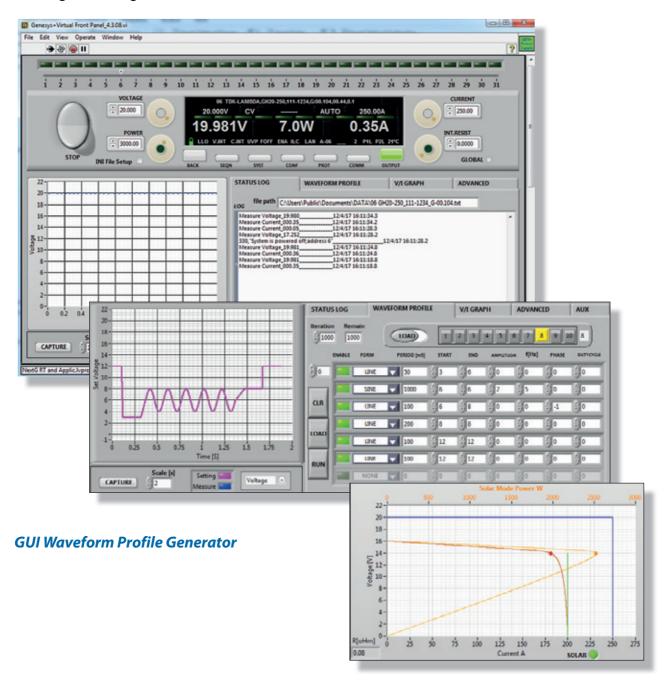
- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.



Graphical User Interface

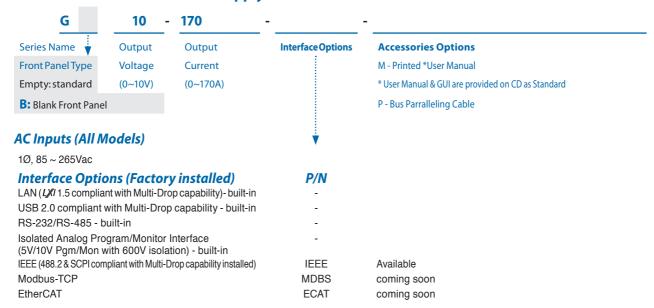
Advanced "Virtual Front Panel" allows programming and monitoring unit(s) with or without front panel display.

- 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



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How to order G1.7kW - Power Supply Identification / Accessories



Models 1.7kW

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

Accessories

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

1. Serial Communication cable

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

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

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

Daisy-chain up to 31 GENESYS[™] power supplies.

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

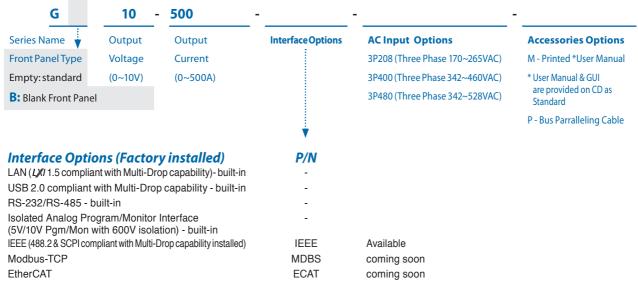
3. Bus Paralleling cable

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

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Printed User Manual	G/M	
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How to order G5kW - Power Supply Identification / Accessories



Models 5kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-500	0~10V	0~500	5000	G80-65	0~80V	0~65	5200
G20-250	0~20V	0~250	5000	G100-50	0~100V	0~50	5000
G30-170	0~30V	0~170	5100	G150-34	0~150V	0~34	5100
G40-125	0~40V	0~125	5000	G300-17	0~300V	0~17	5100
G60-85	0~60V	0~85	5100	G600-8.5	0~600V	0~8.5	5100

Accessories

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

1. Serial Communication cable

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

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

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

Daisy-chain up to 31 **GENESYS**[™] power supplies.

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

3. Bus Paralleling cable

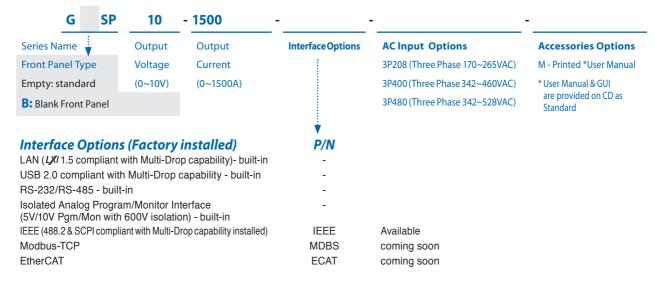
Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P
4. User Manual		
Printed User Manual		G/M

5. Parallel Kit: 20kW

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

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



Models GSP 10kW

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)	Model	Output Voltage VDC	Output Current (A)	Output Power (kW)
GSP10-1000	0~10V	0~1000	10	GSP80-130	0~80V	0~130	10.4
GSP20-500	0~20V	0~500	10	GSP100-100	0~100V	0~100	10
GSP30-340	0~30V	0~340	10.2	GSP150-68	0~150V	0~68	10.2
GSP40-250	0~40V	0~250	10	GSP300-34	0~300V	0~34	10.2
GSP60-170	0~60V	0~170	10.2	GSP600-17	0~600V	0~17	10.2

Models GSP 15kW

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)	Model	Output Voltage VDC	Output Current (A)	Output Power (kW)
GSP10-1500	0~10V	0~1500	15	GSP80-195	0~80V	0~195	15.6
GSP20-750	0~20V	0~750	15	GSP100-150	0~100V	0~150	15
GSP30-510	0~30V	0~510	15.3	GSP150-102	0~150V	0~102	15.3
GSP40-375	0~40V	0~375	15	GSP300-51	0~300V	0~51	15.3
GSP60-255	0~60V	0~255	15.3	GSP600-25.5	0~600V	0~25.5	15.3

Accessories

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

1. Serial Communication cable

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

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

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

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

3. User Manual

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

Models Series	G (Std Front Pa GB (Blank Front		GSP (Scala	ble Power)
Rated Power	1.7kW	5kW	10kW	15kW
Voltage Range		Current R	ange (A)	
0-10V	0~170A	0~500A	0~1000A	0~1500A
0-20V	0~85A	0~250A	0~500A	0~750A
0-30V	0~56A	0~170A	0~340A	0~510A
0-40V	0~42A	0~125A	0~250A	0~375A
0-60V	0~28A	0~85A	0~170A	0~255A
0-80V	0~21A	0~65A	0~130A	0~195A
0-100V	0~17A	0~50A	0~100A	0~150A
0-150V	0~11.2A	0~34A	0~68A	0~102A
0-300V	0~5.6A	0~17A	0~34A	0~51A
0-600V	0~2.8A	0~8.5A	0~17A	0~25.5A
Weight (kg/lb)	5/11	7.5/16.5	15.5/34.2	23.5/51.8

AC Input Range

AC IIIput nully				
Rated Power	1.7kW	5kW	10kW	15kW
1Ø, 85-265Vac	*	N/A	N/A	N/A
3P208	N/A	*	*	*
3P400	N/A	*	*	*
3P480	N/A	*	*	*

TDK·Lambda — GENESYS™ 1700W SERIES SPECIFICATIONS

Standard Company content (27)	OUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
		_										
International Content Tenant Content		A	170	85	56	42	28	21	17	11.2	5.6	2.8
Sections Description Section	3.Rated output power	W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
Sections Description Section	INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
2		_						00	100	150	500	000
Second Programmer (**) Second Programmer (A										
Afficiency 1199 (1998) 50.08 20.09 1999 1		_		c 0.98 @ 200	Vac, rated out	put power.					=	
CAMPAIR AND PRICE MADE V	4.Efficiency (at 100 Vac/20Vac, rated output)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
Jake Lead regulation (*)	5.Inrush current (*5)	Α	Less than 50A	Ą								
Jake Lead regulation (*)	CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
2.MAX Load regulation T						10		00	100	150	500	000
Supplement of soft (19)	-	_										
Application Month Continued Month Co		_		 		60	60	75	75	75	120	500
Sampstane coefficient												
Compensation Comp									12	0		100
Name and grift									a laad 0 tamm			
Elementer server compensation (vietr 10)).		
Supplement Fill Mode Property Prop	-									-		_
Table Facility Table T	·	_										
ILDOWN-Progresposes times No load (**12)		_										
Mostad P12 ms	10 Down-prog reconce time:	_										
10-1009, 10-2009,	No load (*12)	mS_										
12-1016 up thine	11.Transient response time	mS	Time for outp	out voltage to	recover within	0.5% of its ra	ted output fo	r a load change	e 10~90% of r	ated output c	urrent. Output	t set-point:
CONSTANT CURRENT MODE	·		10~100%, £0	cai serise. Less	ulali iMS, for					ve 100V.		
Max Land regulation (**)	12.noiu-up time					161	ııs typicai, rat	eu output pov	ver			
2.00 2.00 3.00	CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
A	1.Max. Line regulation (*6)		0.01% of rate	d output curre	ent. +2mA							
A			0.02% of rate	d output curr	ent. +5mA							
Rigipple times, @ rated voltage, B.W Sitz-MMtz.	-	mA				60	50	30	30	10	8	5
Siemperature coefficient PPMC Sign-Geody TopPPMC from rated output current, following 30 minutes warm-up. Sign-Geody TopPPMC from rated output current, following 30 minutes warm-up. Care practice stability	4.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz.	mA	250	120	70	60	50	25	15	10	8	5
Sitemperature certificient PPW/C 2074-00V 70PPM/C from rated output current, following 30 minutes warm-up.					om rated outp							
2. 2. 2. 2. 2. 2. 2. 2.	5.Temperature coefficient	PPM/°C										
AVAILOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)	6 Temperature stability									erature		
ARALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE CUTPUT)	o.remperature stubility	+-										
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1. Nout voltage programming	7. Warm-up drift											
1.0 1.0				_E33 tilali +/-0	.1570 Of Tated C	otput current	Over 30 minu	tes ronowing p	Jower on.			
2-100 (voltage programming (*14)	ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
South resistor programming (*14)	1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	/out.			
Soutput voltage monitor	2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	ut.			
SOutput voitage monitor	3.Vout resistor programming		0~100%, 0~5	/10Kohm full:	scale, user sele	ctable. Accura	acy and linear	ity: +/-0.5% of	rated Vout.			
Signal	4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full:	scale, user sele	ctable. Accura	acy and linear	ity: +/-0.5% of	rated lout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal	5.Output voltage monitor		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5%.						
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. CVICC Signal CVICC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analog signal Enable/Disable analog programming control by electrical signal or dry contact. Remote: O0.60 or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal Enable/Disable analog programming control by electrical signal or dry contact. Denote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mJ. 5. ENABLE/DISABLE signal Enable/Disable P5 output by electrical signal or dry contact. Denote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. INTERLOCK (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. Interlock (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. Interlock (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe	6.Output current monitor (*14)		0~5V or 0~10	V, user selecta	able. Accuracy	: +/-0.5%.						
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. CVICC Signal CVICC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analog signal Enable/Disable analog programming control by electrical signal or dry contact. Remote: O0.60 or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal Enable/Disable analog programming control by electrical signal or dry contact. Denote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mJ. 5. ENABLE/DISABLE signal Enable/Disable P5 output by electrical signal or dry contact. Denote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. INTERLOCK (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. Interlock (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. User selectable logic. Oe. Interlock (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: O-0.60 or short. Local: 2-30V or open. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe. Oe												
2. CV/CC signal			D 1		. 0 !!	. 0		. 000 000 11		201/14 :		. 10 1
3.LOCAL/REMOTE Analog control												nt: IUMA.
4. LOCAL/REMOTE Analog signal		_										
5. ENABLE/DISABLE signal	-	_				<u> </u>						
6. INTERLOCK (ILC) control 7. Programmed signals 7. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN/ TRIGGER OUT signals 8. TRIGGER IN/ TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO c	3 3											rrent: 10mA.
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 v	3	_				gnal or dry cor	ntact. 0~0.6V	or short, 2~30\	or open. Use	er selectable lo		
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Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 2. Series operation					able signals. N	Maximum volta	ntact. Remote age 25V, Maxi	mum sink curr	ort. Local: 2~3 ent 100mA (SI	0V or open. hunted by 27\	/ zener)	
Topologramming accuracy (*14) Topologramming resolution Topologramming resolutio			Maximum lo	ow level inpu	able signals. Not able signals. Not able signals.	Maximum volta 0.8V,Minimur	ntact. Remote age 25V, Maxi n high level	mum sink curr	ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	0V or open. hunted by 27\ kimum high l	/ zener)	5V positive
FUNCTIONS AND FEATURES 1. Parallel operation	8. TRIGGER IN / TRIGGER OUT signals		Maximum lo edge trigge	ow level inpur: tw=10us m	able signals. Notes able signals. Notes able signals. Notes able to the signals able to the signals. Notes able to the signals able to the signals. Notes able to the signals able to the signals. Notes able to the signal signal signals. Note able to the signal si	Maximum volta 0.8V,Minimur f=1us Maxim	ntact. Remote age 25V, Maxi n high level	mum sink curr	ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	0V or open. hunted by 27\ kimum high l	/ zener)	5V positive
1. Parallel operation Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 2. Series operation Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.9 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) V 10 20 30 40 60 80 100 150 300 600 1.Vout programming accuracy (*15) 0.05% of rated output voltage 2.lout programming accuracy (*14) 0.1% of actual output current+0.2% of rated output current 3.Vout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.005% of rated output voltage 6.lout readback accuracy (*14) 0.2% of rated output voltage 6.lout readback accuracy (*14) 0.2% of rated output voltage 6.lout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		Maximum lo edge trigge By electrical	ow level inpur: tw=10us m Voltage: 0~0.6	able signals. Not not able signals. Not age = 0 not not age = 0 not not not age. 5V/2~30V or dr	Maximum volta 0.8V,Minimur f=1us Maxim	ntact. Remote age 25V, Maxi n high level	mum sink curr	ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	0V or open. hunted by 27\ kimum high l	/ zener)	5V positive
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5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*14) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.011% 0.007% 0.002%	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*15)		Maximum le edge trigge By electrical 1/4 ~5V=OK, 0V Possible. Up the Possible. Two Power supplict Limits the outlemulates serior Programmab communication Profiles of up 10 0.05% of rate 0.1% of actual 1/8 of ac	ow level inpur: twe-10us nr Voltage: 0~0.6 (5000hm imp to 4 identical unit es can be con tput power to tes resistance. le Output rise to 100 steps of d output volta l output curree	able signals. N it voltage = C ininimum. Tr, T iv/2~30V or dr pedance)=Fail units in Master is. Refer to inst nected in Dais a proggramm and Output fa e front panel. can be stored i 30 age nt+0.2% of rat	laximum volta 0.8V,Minimur f=1us Maxim y contact. /Slave mode. I cruction manu y chain to syn ed value. Proo nge: 1~1000m all slew rate. Pr n 4 memory c	ntact. Remote age 25V, Maxi n high level num, Min del Refer to instru al. chronize their gramming via Ω. Programm ogramming re ells. Activatio	mum sink curn input voltage ay between 2 uction manual. turn-on and t the communic ing via the cor ange: 0.0001~	ort. Local: 2~3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1 999.9 V/mSec	oV or open. hunted by 27\timum high I . or the front pai ports or the fr . or A/mSec. P	/ zener) level input = nel. ront panel. rogramming v	ria the ront panel.
6.lout readback accuracy (*14) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution		Maximum le edge trigge By electrical \(^1\) 4~5V=OK, OV Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	ow level inpur: tw=10us m Voltage: 0~0.6 ('(500ohm imp to 4 identical unit es can be con tput power to es resistance. le Outpur ise on ports or th to 100 steps of d output volts l output turre ed output ure ed output vol	able signals. N it voltage = 0 ininimum. Tr, T iv/2~30V or dr ivedance)=Fail units in Master is. Refer to inst nected in Dais a proggramm Resistance rar and Output fa e front panel. can be stored i 30 age nt+0.2% of rat tage	laximum volta 0.8V,Minimur f=1us Maxim y contact. /Slave mode. I cruction manu y chain to syn ed value. Proo nge: 1~1000m all slew rate. Pr n 4 memory c	ntact. Remote age 25V, Maxi n high level num, Min del Refer to instru al. chronize their gramming via Ω. Programm ogramming re ells. Activatio	mum sink curn input voltage ay between 2 uction manual. turn-on and t the communic ing via the cor ange: 0.0001~	ort. Local: 2~3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1 999.9 V/mSec	oV or open. hunted by 27\timum high I . or the front pai ports or the fr . or A/mSec. P	/ zener) level input = nel. ront panel. rogramming v	ria the ront panel.
7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. Iout programming accuracy (*14) 3. Vout programming resolution 4. lout programming resolution		Maximum le edge trigge By electrical '\' 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	ow level inpur: tw=10us m Voltage: 0 - 0.6. (1500ohm imp to 4 identical unit es can be con tput power to es resistance. le Output rise on ports or th to 100 steps o d output volta. I output curre ed output vol ed output cui ed output cui	able signals. N it voltage = 0 ininimum. Tr, T is//2~30V or dr is/day	laximum volta 0.8V,Minimur f=1us Maxim y contact. /Slave mode. I cruction manu y chain to syn ed value. Proo nge: 1~1000m all slew rate. Pr n 4 memory c	ntact. Remote age 25V, Maxi n high level num, Min del Refer to instru al. chronize their gramming via Ω. Programm ogramming re ells. Activatio	mum sink curn input voltage ay between 2 uction manual. turn-on and t the communic ing via the cor ange: 0.0001~	ort. Local: 2~3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1 999.9 V/mSec	oV or open. hunted by 27\timum high I . or the front pai ports or the fr . or A/mSec. P	/ zener) level input = nel. ront panel. rogramming v	ria the ront panel.
	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1.Vout programming accuracy (*15) 2. Iout programming resolution 4. Iout programming resolution 4. Iout programming resolution 5. Vout readback accuracy		Maximum le edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate 0.05% o	ow level inpur: twe-lous in Voltage: 0 – 0.6 (1500 hm imput to 4 identical unities can be continued to 5 identical unities can be continued to 5 identical unities can be continued to 4 identical unities can	able signals. N it voltage = C inimum. Tr, T ivi2~30V or dr bedance)=Fail units in Master is. Refer to inst nected in Dais a proggramm Resistance rar and Output fa e front panel. can be stored i 30 age nt+0.2% of rat tage rent age	laximum volta 0.8V,Minimur f=1us Maxim y contact. /Slave mode. I cruction manu y chain to syn ed value. Proo nge: 1~1000m all slew rate. Pr n 4 memory c	ntact. Remote age 25V, Maxi n high level num, Min del Refer to instru al. chronize their gramming via Ω. Programm ogramming re ells. Activatio	mum sink curn input voltage ay between 2 uction manual. turn-on and t the communic ing via the cor ange: 0.0001~	ort. Local: 2~3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1 999.9 V/mSec	oV or open. hunted by 27\timum high I . or the front pai ports or the fr . or A/mSec. P	/ zener) level input = nel. ront panel. rogramming v	ria the ront panel.
B.Iout readback resolution (or rated output current) % 0.007% 0.002% 0.003% 0.003% 0.005% 0.006% 0.007% 0.010% 0.003% 0.004%	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy (*14)	V	Maximum le edge trigge By electrical V 4~5V=OK, 0V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.2% of rated	ow level inpur: twe-lous in voltage: 0 – 0.6 (1500 hm imput to 4 identical unit es can be con tput power to es resistance. le Output rise on ports or the to 100 steps of doutput volt. I output volted output volted output volted output volted output volted output volted output curred output volted output curred output curre	able signals. N it voltage = 0 ininimum. Tr,T ininimum. Tr,T iv//2~30V or dr bedance)=Fail units in Master is. Refer to inst nected in Dais a proggramm Resistance rar and Output fa e front panel. can be stored i 30 age nt+0.2% of rat tage rent age	laximum volta 0.8V,Minimur f=1us Maxim y contact. //Slave mode. I rruction manu y chain to syn ded value. Proc nge: 1~1000m all slew rate. Pro n 4 memory c	ntact. Remote age 25V, Maxi n high level um, Min del Refer to instru al. chronize their gramming via Ω. Programm rogramming rells. Activation	mum sink curn input voltage ay between 2 action manual. turn-on and t the communic ing via the cor ange: 0.0001~ n by commanc	ort. Local: 2-3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1 999.9 V/mSec d via the comn	oV or open. hunted by 27\timum high I . or the front pai ports or the fr . or A/mSec. P nunication po	vener) level input = nel. cont panel. crogramming verts or by the fr	ont panel.
	8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interface) 1.Vout programming accuracy (*15) 2.lout programming resolution 4.lout programming resolution 4.lout programming resolution 5. Vout readback accuracy 6.lout readback accuracy 6.lout readback accuracy (*14) 7. Vout readback resolution (of rated output voltage)	V	Maximum le edge trigge By electrical 1/4 ~ 5V=OK, 0V Possible. Up to Possible. Two Power supplication of the communication of the commu	ow level inpur: tw=10us nr Voltage: 0~0.6 (5000hm imp to 4 identical unit es can be con tput power to eise resistance. le Output rise to 10 utput curre ed output volta output curre ed output curre do output curre do output curre output output curre coutput output output curre output output output curre output output output curre output	able signals. Nat voltage = Continum. Tr, Time voltage = Continum. Tr, Tim	Asximum volta 0.8V,Minimur f=1us Maxim y contact. //Slave mode. I cruction manu y chain to syn ed value. Proo nge: 1~1000m all slew rate. Pr n 4 memory c 40 ded output cur 0.003%	ntact. Remote age 25V, Maxin high level um, Min del del um, Min d	mum sink curninput voltage ay between 2 cition manual. Iturn-on and the communication of the	ort. Local: 2~3 ent 100mA (Si = 2.5V, Max 2 pulses 1ms urm-off. cration ports o mmunication j 999.9 V/mSec I via the comn 100 0.011%	oV or open. hunted by 27\timum high I or the front pai ports or the fr or A/mSec. P hunication po	vener) level input = nel. roont panel. rogramming vents or by the free. 300	ia the ont panel. 600

GENESYS™ 1700W SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut- User presetal	down when p	ower supply o	hanges mode le in autostart	from CV or Po mode, by Pov	ower Limit to wer Switch, by	CC mode or fro	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input re	ycle in autost	art mode, by	OUTPUT butt	on, by rear par	nel or by comr	nunication.	
3.Over -voltage programming ran	ge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming acc	uracy		+/-1% of rate	d output volta	ige							
5.Output under voltage limit (UVL	.)		Prevents fron	n adjusting Vo	out below limi	t. Does not app	oly in analog	programming	. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection						y autostart mo			•	•		•
7. Output under voltage limit (UVL	_)		Prevents adju	ustment of Vo	ut below limit							
8. Output under voltage protection	on (UVP)		Prevents adjumode, by Pov	ustment of Vo wer Switch, by	ut below limit OUTPUT butt	. P.S output tui on, by rear pai	ns Off during nel or by com	g under voltag munication.	je condition. R	eset by AC inp	out recycle in a	autostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 End	oders							
				wer Limit mai								
				P manual adju								
						dback, OCL, EN	IA. ILC					
						LAN,IEEE,RS23		or Optional c	ommunicatio	n interface.		
				FF. Front Pane		, , , ,	, , ,					
						Baud Rate, Ad	dress. IP and	communicati	on language.			
						tage/resistive				nina		
						Voltage/Curre			1 2			
2.Display						utput voltage		,				
						put current +/						
3.Front Panel Buttons Indications						MMUNICATION		N.CONFIGUR	ATION, SYSTEM	A. SEOUENCER	R.	
4. Front Panel Display Indications			Voltage, Curr	ent, Power, C\	/, CC, CP, Exter	nal Voltage, Ex munication, Tr	cternal Curre	nt, Address, L				iote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 1009	6 load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%		no condensat	ion)							
4.Storage humidity		%		no condensati								
5.Altitude (*16)			Operating: 10	0000ft (3000m), output curr	ent derating 29	6/100m or Ta	derating 1°C/	100m above 2	000m. Non op	erating: 40000	Oft (12000m).
MECHANICAL												
1.Cooling			Forced air co	oling by interi	nal fans. Air flo	w direction: fr	om Front par	nel to power s	upply rear			
2.Weight		kg	Less than 5kg].								
3.Dimensions (WxHxD)		mm				isbars and bu			Outline draw	ing).		
4.Vibration			MIL-810G, me	ethod 514.6, P	rocedure I, tes	t condition An	nex C - 2.1.3.	1				
5.Shock			<u> </u>	5, half sine, 11								
SAFETY/EMC												
1.Applicable standards:	Safety		UL60950-1, C	SA22.2 No.60	950-1, IEC609	50-1, EN60950-	1.					
1.1. Interface classification			Vout ≤40V M	odels: Output	. J1.J2.J3.J4.J5	J6,J7,J8 (sensense) are hazard	and .J9 (con	nmunication	options) are SE	LV.	s) are SELV	
						LV): 4242VD(-, -, -, -, -, -, -, -, -, -, -, -, -, -	
1.2 Withstand voltage			60V≤Vout≤1	00V Models:	Input - Outpu	ut: 4242VDC · it - Ground: 2	Imin, Input -	SELV: 4242			850VDC 1mi	n,
			100 <vout≤6 Output - Gro</vout≤6 	00V Models: ound: 2500VE	Input - Outpo C 1min, Inpu	ut: 4242VDC it - Ground: 2	1min, Input - 835VDC 1mi	SELV: 4242' in.	/DC 1min, Ou	ıtput - SELV:	1275VDC 1m	nin,
1.3 Insulation resistance	<u> </u>		100Mohm at	25°C, 70%RH.								
2.Conducted emmision			IEC/EN61204	-3 Industrial e	nvironment A	nnex H table I	1.1 , FCC Part	15-A, VCCI-A				
3.Radiated emission						nnex H table I			VCCI-A			
4. EMC compliance	EMC(*17)			IEC/EN61204-								
-1. Line compliance	LINC(1/)		1 recording to	ILC/LINUIZU4	5 muusuidi ei	ivii olililelit						

- NOTES:
 *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
 *3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).
 *4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
 *5: Not including EMI filter inrush current, less than 0.2m5ec.
 *6: 85-132Vac or 170-265Vac. Constant load.
 *7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
 *8: For 10V-300V models: Measured with JEITA RC-913IC (1:1) probe. For 400~600V model: Measured with 100:1 probe.
 *9: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 *11: From 10% to 99% of Rated Output Voltage, with rated, resistive load.
 *12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
 *13: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage.
 *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 *15: Measured at the sensing point.
 *16: For 10V model Tale aderating 2°C/100m.
 *17 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
 *18 Max. ambient temperature for using IEEE is 40°C.

TDK·Lambda GENESYS™ 5000W SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	60-85	80-65	100-50	150-34	300-17	600-8.5
1.Rated output voltage(*1)		٧	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		Α	500 (*3)	250	170	125	85	65	50	34	17	8.5
3.Rated output power		W	5000	5000	5100	5000	5100	5200	5000	5100	5100	5100
INPUT CHARACTERISTICS		٧	10	20	30	40	60	80	100	150	300	600
				V models: 170				,				
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)			V models: 342				ac) 40/460/480Va	<i>a</i>)			
	3-Phase, 200V models:		17.5A @ 200V		~528VaC, 4/~t	SATZ (Covers 3	80/400/415/4	40/460/480Va	C)			
2. Maximum Input current at	3-Phase, 400V models:		9.2A @ 380Va									
100% load	3-Phase, 480V models:	1	9.2A @ 380Va									
3.Power Factor (Typ)				80Vac, rated o			,		_			
4.Efficiency (*5)		%	89.5	91	91	91	91	91	91	91	92	92
5.Inrush current (*6)		A	Less than 50/									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			1	d output volta	-							
2.Max. Load regulation (*8)				d output volta	-							
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	80	90	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	15	15	20	60	100
5.Temperature coefficient		PPM/°C		m rated outp					1 10:			
6.Temperature stability								o. Constant lin		0.		
7. Warm-up drift	1 (744)							ving power on	1	_	_	_
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	Full load (*11)	mS mc	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS ms	50 300	50 600	80 800	80 900	80 1000	100 1200	100 1900	100 2000	100 3000	200
	No load (*12)	mS								rated output c		3000
11.Transient response time		mS						r a 10ad chang g 100V. 2mS, fo			arrent. Outpu	caec-point:
12.Start up delay		Sec	Less than 5 Se									
CONSTANT CURRENT MODE		v	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr		40	00	00	100	130	300	000
2.Max. Load regulation (*13)				d output curr								
3.Ripple r.m.s. @ 10% rated voltage	ge (*14)	mA	1200	600	300	150	100	70	45	45	15	8
4.Ripple r.m.s. @ rated voltage. B.	-	mA	700	300	150	75	50	35	23	23	7.5	4
								nutes warm-u				
5.Temperature coefficient		PPM/°C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 min	utes warm-up.				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	o. Constant line	e, load & temp	perature.		
7.14			10V~100V mo	odel: Less thar	n +/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power o	n.		
7. Warm-up drift			150V~600V: I	Less than +/-0	15% of rated							
					.15 /0 01 18164 (output current	over 30 minu	tes following	power on.			
ANALOG PROGRAMMING AND M	MONITORING (ISOI ATED	FROM T	HE OUTPUT)		.13 /0 OI Tateu C	output current	over 30 minu	tes following	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T										
1.Vout voltage programming		FROM T	0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0).15% of rated \	Vout.			
1.Vout voltage programming 2.lout voltage programming (*15			0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us	ser selectable. ser selectable.	Accuracy and Accuracy and	linearity: +/-0	0.15% of rated to	Vout.			
1.Vout voltage programming	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full	ser selectable. ser selectable. scale, user sele	Accuracy and Accuracy and ectable. Accur	linearity: +/-0 linearity: +/-0 acy and linear).15% of rated \	Vout. out. f rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full	ser selectable. ser selectable. scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accur ectable. Accur	linearity: +/-0 linearity: +/-0 acy and linear	1.15% of rated \(\) 1.4% of rated lo	Vout. out. f rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accuractable. Accuractable. Accuractable. Accuractable.	linearity: +/-0 linearity: +/-0 acy and linear	1.15% of rated \(\) 1.4% of rated lo	Vout. out. f rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us V 10Kohm full V 10Kohm full V 10V, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accuractable. Accuractable. Accuractable. Accuractable.	linearity: +/-0 linearity: +/-0 acy and linear	1.15% of rated \(\) 1.4% of rated lo	Vout. out. f rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA)	5)	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full DV, user selecta	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and ectable. Accur- ectable. Accur- r: +/-0.5%.	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	0.15% of rated \\ 0.4% of rated \\ 0.4% of rated \text{lc} \\ 0.5% of \\ 0.5%	Vout. out. f rated Vout. f rated lout.	e: 30V. Maximi	um Sink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us V or 0~10V, us /10Kohm full VV, user selecta VV, user selecta	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accur.: +/-0.5%. r: +/-0.5%.	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	1.15% of rated lo 1.4% of rated lo ity: +/-0.5% of ity: +/-0.5% of	Vout. out. f rated Vout. f rated lout.	e: 30V, Maximi ink Current: 10		nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	5) ATED FROM THE OUTPUT	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 Power supply CV/CC Monito	V or 0~10V, us V or 0~10V, us V10Kohm full V10Kohm full V1, user selecta V1, user selecta V2 output moni	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode	Accuracy and Accuracy and Accuracy and ectable. Accur. ectable. Accur. r: +/-0.5%. r: +/-0.5%.	linearity: +/-0 linearity: +/-0 acy and linear acy and linear On: On. Outpu	ut Off: Off. Max m Voltage: 30'	Vout. out. f rated Vout. f rated lout. ximum Voltag		DmA.	
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout 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	5) ATED FROM THE OUTPUT	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progr	IV or 0~10V, us IV or 0~10V, us I/10Kohm full I/10Kohm full IV, user selecta IV, user selecta IV output moni or. Open colle ple analog pro amming contr	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll- ctor. CC mode gramming collolor in monitor sig	Accuracy and Accuracy and ectable. Accur. c:+/-0.5%. c:+/-0.5%. ector. Output: c: On. CV mode introl by electrinal. Open colle	linearity: +/-0 linearity: +/-0 acy and linear acy and linear on: On. Outpu e: Off. Maximu ical signal or of ector. Remote:	at Off: Off. May m Voltage: 30' dry contact. Re On. Local: Off.	Vout. frated Vout. frated lout. simum Voltag V, Maximum S emote: 0~0.6V	ink Current: 10 or short. Loca	OmA. ıl: 2~30V or op ximum Sink Cu	en.
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GENESYS™ 5000W SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut- User preseta	down when p ble. Reset by <i>i</i>	oower supply o AC input recyc	hanges mode le in autostart	from CV or Po mode, by Pov	ower Limit to (wer Switch, by	CC mode or fro OUTPUT butte	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset I	by AC input red	ycle in autost	art mode, by	OUTPUT butto	on, by rear pan	el or by comr	munication.	
3.Over -voltage programming ran	nge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming ac			+/-1% of rate	d output volt	age							
5.Output under voltage limit (UV	L)				out below limi			programming	. Preset by froi	nt panel or co	mmunication	port.
6.Over temperature protection					uto recovery by		de.					
7. Output under voltage limit (UV	L)		Prevents adj	ustment of Vo	out below limit							
8. Output under voltage protecti	on (UVP)				out below limit y OUTPUT butt				e condition. R	eset by AC in	out recycle in a	utostart
FRONT PANEL												
1.Control functions				ons with 2 En								
				wer Limit ma								
				P manual adj								
					P, UVL,UVP, Fol							
					s - Selection of	LAN,IEEE,RS2	32,RS485,USB	or Optional c	ommunication	interface.		
	-			OFF. Front Pan								
	-				s - Selection of							
					- Selection Vol				10K programm	ing		
3 D: 1					- Selection of			g 5V/10V.				
2.Display					05% of rated o							
25 10 10 11 11 11					% of rated out			N CONFICUR	TION CYCTEN	4.65011511651		
3. Front Panel Buttons Indications					IEW, FINE, COI							
4. Front Panel Display Indications			Voltage, Curi (communica	ent, Power, C tion), RS/USB/	V, CC, CP, Exter LAN/IEEE com	nal Voltage, E munication, T	xternal Curre rigger, Load/S	nt, Address, LF Store Cell.	P, Autostart, S	afetstart, Fol	dback V/I, Rem	ote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 1009	% load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (no condensat	tion).							
4.Storage humidity		%	10~95% RH (no condensat	ion).							
5.Altitude (*17)	-				n), output curre	ent derating 2	%/100m or Ta	derating 1°C/	100m above 20	000m. Non on	erating: 40000)ft (12000m)
MECHANICAL			Toperating.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n,, output curr	derdanig 2	70, 100111 01 14	deruting i e		, , , , , , , , , , , , , , , , , , ,	-crucing: 10000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		П	F	alta a las stadas			Г	-14				
1.Cooling			_		nal fans. Air flo	w direction: f	rom Front par	nei to power si	uppiy rear			
2.Weight		kg	Less than 7.5									
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 553.5	5 (Without bu 5 (Including b	usbars and b	ousbars cove	er) (Refer to C	Outline drawi	ng).		
4.Vibration			MIL-810G, m	ethod 514.6, P	Procedure I, tes	t condition Ar	nex C - 2.1.3.	1				
5.Shock			Less than 20	G, half sine, 11	mSec. Unit is ι	ınpacked.						
SAFETY/EMC												
1.Applicable standards:	Safety		UL60950-1. C	SA22.2 No.60	950-1, IEC6095	0-1, EN60950	-1.					
1.1. Interface classification			Vout ≤40V M	odels: Output	t, J1,J2,J3,J4,J5 Output, J8 (ser	,J6,J7,J8 (sense	e) and ,J9 (con	nmunication o	options) are SE	LV.	s) are SELV	
					t - Output (SE						-, 0.0 0667	
1.2 Withstand voltage			60V≤Vout≤1	00V Models:	: Input - Outpu DC 1min, Inpu	ıt: 4242VDC	1min, Input -	SELV: 4242\			850VDC 1mi	n,
- January - Janu					: Input - Outpu DC 1min, Inpu				/DC 1min, Ou	ıtput - SELV:	1275VDC 1m	nin,
1.3 Insulation resistance	1			25°C, 70%RH								
2.Conducted emmision					nvironment, A	nnex H table	H.1 . FCC Part	15-A. VCCI-A				
3.Radiated emission					environment, A				/CCI-A			
	EMC(*19)						11.5 anu 114, F	ccrait is-A,	VCCI-M			
4. EMC compliance	EMC(*18)		According to	IEC/EN61204	-3 Industrial er	ivironment						

- 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: Derate 5A/1°C above 40°C.
 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
 *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
 *6: Not including EMI filter inrush current, less than 0.2mSec.
 *7: 3-Phase 200V models: 170-256Vac, 3-Phase 400V models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.
 *8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remost Sense.
 *9: For 10V-150V models: Measured with JEITA RC-9131C (1:1) probe. For 300-600V model: Measured with 100:1 probe.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
 *12: From 90% to 10% of Rated Output Voltage.
 *14: For 10V model the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.
 *16: Measured at the sensing point; readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 *16: Measured at the sensing point; readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
 *19: Max. ambient temperature for using IEEE is 40°C.
 *20 For 10V model only: Max. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.

GENESYS™ GSP10kW SERIES SPECIFICATIONS

OUTPUT RATING 1.Rated output voltage(*1)		CCD	10 1000	20 500	20.240	40.250	60 170	00 120	100 100	150.00	200.24	600 17
1.Kated output voitage("1)		GSP V	10-1000	20-500 20	30-340 30	40-250 40	60-170 60	80-130 80	100-100	150-68 150	300-34 300	600-17
2.Rated output current (*2)		A	1000 (*3)	500	340	250	170	130	100	68	34	17
3.Rated output power		kW	1000 (3)	10	10.2	10	10.2	10.4	100	10.2	10.2	10.2
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
IN OT CHARACTERISTICS		V			~265Vac, 47~6			00	100	150	300	000
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase, 400	/ models: 342	~460Vac, 47~6	3Hz (Covers	380/400/415V		c)			
24	3-Phase, 200V models:		35A @ 200Va	:								
2. Maximum Input current at 100% load	3-Phase, 400V models:		18.4A @ 380V									
	3-Phase, 480V models:		18.4A @ 380V									
3.Power Factor (Typ) 4.Efficiency (*5)		%	0.94 @ 200/38 89.5	90	91	91	91	91	91	91	92	92
5.Inrush current (*6)		A	Less than 100		71	31	71	71	71	71	72	72
6.AC line phase imbalance		%	< 5%									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate			40	00	00	100	150	300	000
2.Max. Load regulation (*8)			0.01% of rate	d output volta	age +5mV							
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	80	90	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	15	15	20	60	100
5.Temperature coefficient		PPM/°C			ut voltage, fol							
6.Temperature stability					hrs interval fol					0.		
7. Warm-up drift 8.Remote sense compensation/w	uire (*10)	 V	Less than 0.0	5% of rated or 2	utput voltage- 5	-2mV over 30 i	minutes follov 5		5	5	5	5
9.Up-prog. Response time (*11)	/iie (* IU)	mS	30	30	30	30	50	5	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	1000	1200	1900	2000	3000	3000
11.Transient response time	· · · · · ·	mS	Time for outp	out voltage to	recover within	0.5% of its ra	ted output fo	r a load chang	e 10~90% of r	ated output c		t set-point:
· .					s than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
12.Start up delay		Sec	Less than 7 Se	ec .								
CONSTANT CURRENT MODE												
1.Max. Line regulation (*7)			0.05% of rate									
2.Max. Load regulation (*13)			0.08% of rate		1							
3.Ripple r.m.s. @ 10% rated voltage		mA	1500	1200	600	300 150	150 75	100	70	45	15 7.5	10
4.Ripple r.m.s. @ rated voltage. B.	W 5HZ~IIVIHZ.	mA	1200 10V~100V	700	300 rom rated outp			50	35	23	7.5	6
5.Temperature coefficient		PPM/°C			m rated outpu							
6.Temperature stability					rs. interval fol					erature.		
					n +/-0.25% of r							
7. Warm-up drift			150V~600V: L	ess than +/-0	.15% of rated o	utput current	over 30 minu	tes following _l	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROMT	HE OUTPUT)									
1.Vout voltage programming	, , , , , , , , , , , , , , , , , , , ,			V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	0.15% of rated \	Vout.			
2.lout voltage programming (*15	5)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	out.			
21/												
3.Vout resistor programming						ctable. Accur						
4.lout resistor programming (*15	5)		0~100%, 0~5	/10Kohm full	scale, user sele	ctable. Accur						
4.lout resistor programming (*15 5.Output voltage monitor	5)		0~100%, 0~5 0~5V or 0~10	/10Kohm full V, user select	scale, user sele able. Accuracy	ectable. Accur : +/-0.5%.						
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)			0~100%, 0~5 0~5V or 0~10	/10Kohm full V, user select	scale, user sele	ectable. Accur : +/-0.5%.						
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA		 	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	/10Kohm full V, user select V, user select	scale, user sele able. Accuracy able. Accuracy	: +/-0.5%. : +/-0.5%.	acy and linear	ity: +/-0.5% of	rated lout.			
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal		 T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	/10Kohm full V, user select V, user select v output mon	scale, user sele able. Accuracy able. Accuracy itor. Open colle	: +/-0.5%. : +/-0.5%.	acy and linear	ity: +/-0.5% of	rated lout.			nt: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	/10Kohm full V, user select V, user select v output moni or. Open colle	scale, user sele able. Accuracy able. Accuracy itor. Open colle ctor. CC mode	ectable. Accura : +/-0.5%. : +/-0.5%. ector. Output	On: On. Outpu	ut Off: Off. Max m Voltage: 30	rated lout. ximum Voltag V, Maximum S	ink Current: 10	OmA.	
4. Iout 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 THE OUTPUT	T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monito Enable/Disab	/10Kohm full V, user select V, user select v output moni or. Open colle ale analog pro	scale, user sele able. Accuracy able. Accuracy itor. Open colle ctor. CC mode gramming col	ectable. Accura : +/-0.5%. : +/-0.5%. ector. Output : On. CV mode	On: On. Outpute: Off. Maximulical signal or constant of the co	ut Off: Off. Max m Voltage: 30 dry contact. Re	kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	0mA. ll: 2~30V or op	en.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monito Enable/Disab analog progra	/10Kohm full V, user select. V, user select. V output monior. Open colle	scale, user sele able. Accuracy able. Accuracy itor. Open colle ctor. CC mode ogramming col rol monitor sig	ectable. Accurate +/-0.5%. : +/-0.5%. ector. Output of On. CV mode ontrol by electrical. Open collections.	On: On. Output: Off. Maximutical signal or cector. Remote:	ut Off: Off. Max m Voltage: 30' dry contact. Re On. Local: Off.	rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	ink Current: 10 or short. Loca ltage: 30V, Ma	0mA. ıl: 2∼30V or op ximum Sink Cu	en.
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 contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra	/10Kohm full V, user select V, user select v output moni or. Open colle elle analog pro amming contrile PS output I	scale, user sele able. Accuracy able. Accuracy itor. Open colle ctor. CC mode gramming col	ectable. Accur. : +/-0.5%. : +/-0.5%. ector. Output : On. CV mode atrol by electrinal. Open colle	On: On. Output: Off. Maximutical signal or cector. Remote: ntact. 0~0.6V	ut Off: Off. Max m Voltage: 30' dry contact. Re On. Local: Off. or short, 2~30'	kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	ink Current: 10 or short. Loca Itage: 30V, Ma er selectable lo	0mA. ıl: 2∼30V or op ximum Sink Cu	en.
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4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) 5.Output voltage monitor 6.Output current monitor (*15) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO CONTOL signal 11. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBAC(RS232/485, Optional IEEE (*19)(1.Vout programming accuracy (*1 2.lout programming accuracy (*1 2.lout programming resolution 4.lout programming resolution	nals K (USB, LAN, *20) Interface) 16)	T)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progre Enable/Disab Two open dra Maximum le edge trigge By electrical V 4~5V=OK, 0V Consult with Power suppli Limits the ou Emulates seri Programmab 10 0.05% of rated 0.002% of rate 0.002% of rate	/10Kohm full //, user select // output moni or. Open colle le analog pro amming contr le PS output li lie PS output lide PS ou	scale, user sele able. Accuracy able. Accuracy able. Accuracy itor. Open colli ictor. CC mode gramming cor rol monitor sig by electrical si by electrical si able signals. A ut voltage = C ninimum. Tr,T sW/2~30V or dr peedance)=Fail nected in Dais a proggramm a Resistance rar a and Output fa the front panel. can be stored i 30 age nt tage trent	ectable. Accur: +/-0.5%. : +/-0.5%. : +/-0.5%. cector. Output: : On. CV mode attrol by electrial. Open collegial or dry corganist or dry corga	On: On. Output: On: On. Output: Off. Maximu cal signal or octor. Remotes thact. O: O.6V n High level signal or octor. Remotes age 25V, Maxi n high level sum, Min del chronize their gramming vi age 200. Programming vi orgamming vi ells. Activatio	at Off: Off. May m Voltage: 30' dry contact. Re On. Local: Off. or short, 2-30' : 0-0.6V or she mum sink curr input voltage ay between the communi ing via the coi	kimum Voltag V, Maximum S mote: 0~0.6V Maximum S mote: 0~0.6V Maximum Vo V or open. Use Tort. Local: 2~3 ent 100mA (S e = 2.5V, Max 2 pulses 1ms Luurn-off. cation ports c mmunication 999.9 V/mSec d via the comm	ink Current: 10 or short. Loca ltage: 30V, Ma: er selectable le 0V or open. hunted by 27V kimum high l	OmA. II: 2~30V or op kimum Sink Cuogic. I/ zener) evel input = nel. ont panel. rogramming v	sen. 5V positive via the ront panel.

GENESYS™ GSP15kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	10-1500	20-750	30-510	40-375	60-255	80-195	100-150	150-102	300-51	600-25.5
1.Rated output voltage(*1)		V	10-1300	20-730	30-310	40-373	60	80	100-130	150-102	300-31	600
2.Rated output current (*2)		A	1500 (*3)	750	510	375	255	195	150	102	51	25.5
3.Rated output power		kW	15	15	15.3	15	15.3	15.6	15	15.3	15.3	15.3
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
III or civiloteralistics					~265Vac, 47~6				100	150	300	000
1.Input voltage/freq. 3 phase, 3 w	ire + Ground (*4)				~460Vac, 47~6			ac)				
					~528Vac, 47~6	3Hz (Covers 3	80/400/415/4	40/460/480Va	c)			
2. Maximum Input current at	3-Phase, 200V models:	-	52.5A @ 200V									
100% load	3-Phase, 400V models:		27.6A @ 380V									
3.Power Factor (Typ)	3-Phase, 480V models:		27.6A @ 380V 0.94 @ 200/38		utnut nower							
4.Efficiency (*5)		%	89.5	90	91	91	91	91	91	91	92	92
5.Inrush current (*6)		Α	Less than 150	A						<u>'</u>		•
6.AC line phase imbalance		%	< 5%									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)	,		0.01% of rate	d output volta	age							
2.Max. Load regulation (*8)			0.01% of rate	d output volta	age +5mV							
3.Ripple and noise (p-p, 20MHz) ((*9)	mV	75	75	75	75	75	80	90	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	•	mV	8	10	12	12	12	15	15	20	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up).				
6.Temperature stability								o. Constant line	e, load & temp	0.		
7. Warm-up drift			Less than 0.0	5% of rated or	utput voltage-	-2mV over 30 i	minutes follov	ving power on	i.			
8.Remote sense compensation/w	ire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	1000	1200	1900	2000	3000	3000
11.Transient response time		mS	Time for outp	ut voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	e 10~90% of i	rated output c	urrent. Outpu	it set-point:
·			10~100%, Lo	al sense. Les	than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		-
12Start up delay		Sec	Less than 7 Se	eC .								
13.Hold-up time												
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate	d output curr	ent.							
2.Max. Load regulation (*13)			0.08% of rate	d output curr	ent.							
3.Ripple r.m.s. @ 10% rated voltage	ie (*14)	mA	2000	1200	600	300	180	100	70	45	15	10
4.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz.	mA	1200	700	300	150	90	60	35	23	7.5	6
F.T		DDM/9C	10V~100V	100PPM/°C fr	om rated outp	ut current, fo	lowing 30 mi	nutes warm-u	p.	•		
5.Temperature coefficient		PPM/°C	150V~600V	70PPM/°C fro	m rated outpu	it current, follo	owing 30 min	utes warm-up.				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-uլ	. Constant line	e, load & temp	oerature.		
7. Warm-up drift			10V~100V mo	del: Less thar	n +/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power o	n.		
7. Wariii-up uriit			150V~600V: L	ess than +/-0	.15% of rated o	utput current	over 30 minu	tes following _l	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPUT)									
1.Vout voltage programming				V or 0~10V. us	ser selectable.	Accuracy and	linearity: +/-0	0.15% of rated \	Vout.			
2.lout voltage programming (*15)						-	0.4% of rated Io				
3.Vout resistor programming	,							ity: +/-0.5% of				
4.lout resistor programming (*15)						-	ity: +/-0.5% of				
5.Output voltage monitor					able. Accuracy		,	,,				
6.Output current monitor (*15)					able. Accuracy							
· ·				,								
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPU							. 000 000 11				
1. Power supply OK signal										e: 30V, Maximi		ent: 10mA.
2. CV/CC signal									-	ink Current: 10		
3. LOCAL/REMOTE Analog contro	I									or short. Loca		
4. LOCAL/REMOTE Analog signal										ltage: 30V, Max		urrent: 10mA.
5. ENABLE/DISABLE Signal					,					er selectable lo	gic.	
6. INTERLOCK (ILC) control					•	· · · · · ·		: 0~0.6V or she			/ mans:-\	
7. Programmed signals										hunted by 27V		adaa +! -
8. TRIGGER IN / TRIGGER OUT sign	als		tw=10us min	v rever input v imum. Tr.Tf=1	roitage = 0.8V, us Maximum	ıvıınımum higi Min delav heti	n reverinput v ween 2 pulses	ortage = 2.5V, 1ms.	ıvıaxımum hiç	gh level input :	= ov positive	euge trigger:
FUNCTIONS AND FEATURES						-, -,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
FUNCTIONS AND FEATURES			C	F4								
1. Parallel operation			Consult with									
2. Series operation			Consult with				alaman di selat					
3. Daisy chain								turn-on and t		and a Control	1	
4. Constant power control							_		-	or the front par		
5. Output resistance control										ports or the fr		uin +b -
6. Slew rate control			communicati	ie Output rise on ports or th	e and Output fa ne front panel.	an siew rate. P	rogramming i	ange: 0.0001~	v>>>.9 V/m5e0	. or A/mSec. P	rogramming '	via tne
						n 4 memory c	ells. Activatio	n by command	d via the com	munication po	rts or by the f	ront panel.
7. Arbitrary waveforms				20	30	40	60	80	100	150	300	600
PROGRAMMING AND READBACH	((USB, LAN, *20) Interface)	V	10	20	50					130	300	000
PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(*20) Interface)									150	300	000
PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(1.Vout programming accuracy (*1	* 20) Interface) 6)		0.05% of rate	d output volt	age					150	300	000
PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(1.Vout programming accuracy (*1 2.lout programming accuracy (*1	* 20) Interface) 6)		0.05% of rate 0.3% of rated	d output volt output curre	age nt					130	300	000
PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(*1. 1.Vout programming accuracy (*1 2.lout programming accuracy (*1 3.Vout programming resolution	* 20) Interface) 6)		0.05% of rate 0.3% of rated 0.002% of rat	d output volt output curre ed output vol	age nt tage					150	300	000
2.lout programming accuracy (*1 3.Vout programming resolution 4.lout programming resolution	* 20) Interface) 6)		0.05% of rate 0.3% of rated 0.002% of rat 0.002% of rat	d output volt output curre ed output vol ed output cu	age nt tage rent					130	300	000
PROGRAMMING AND READBACK R5232/485, Optional IEEE (*19)(' 1.Vout programming accuracy (*1 2.lout programming accuracy (*1 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	* 20) Interface) 6)		0.05% of rate 0.3% of rated 0.002% of rat 0.002% of rat 0.05% of rate	d output volta output curre ed output vol ed output cur d output volt	age nt tage rrent age					130	300	300
PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(*1.10 out programming accuracy (*1.2.1 out programming accuracy (*1.2.2 out programming resolution 4.1 out programming resolution 5.1 out readback accuracy (*15)	*20) Interface) 6) 5)		0.05% of rate 0.3% of rated 0.002% of rat 0.002% of rat 0.05% of rate 0.2% of rated	d output volt. output curre ed output vol ed output cui d output volt output curre	age nt tage rrent tage nt	0.00304	0.00204	0.00204				
PROGRAMMING AND READBACK R5232/485, Optional IEEE (*19)(*1 1.Vout programming accuracy (*1 2.lout programming accuracy (*1 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	*20) Interface) 6) 5) seed output voltage)		0.05% of rate 0.3% of rated 0.002% of rat 0.002% of rat 0.05% of rate	d output volta output curre ed output vol ed output cur d output volt	age nt tage rrent age	0.003% 0.004%	0.002% 0.005%	0.002%	0.011% 0.008%	0.007% 0.012%	0.004%	0.002%

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

Over voltage protection (DVP) Over brothage protection (DVP)	PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
3.0 der verlatge programming grange	1.Foldback protection			Output shut- User presetab	down when pole. Reset by A	ower supply o	hanges mode le in autostart	from CV or P mode, by Po	ower Limit to (wer Switch, by	CC mode or fr OUTPUT but	om CC or Powe	er Limit to CV nel or by com	mode. munication.
4. Over-voltage programming acroary 5. Over-voltage programming acroary 5. Over tomperature protection 6. Over temperature protection 7. Over temperature protection 8. Output under voltage protection (UVP) 8. Output under voltage (UVP) 8. Output (UVP) 8. Outp	2.Over-voltage protection (OVP)												
5. Output under voltage limit (IVV).	3.Over -voltage programming rai	nge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
5.0-ver temperature protection													
7. Output under voltage Inmit (IVI)		L)							programming	. Preset by fro	nt panel or co	mmunication	port.
## Province adjustment of Vour blowl limit. PS output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication. ### Province Incidence Supplies the Province Supplies Supplie								de.					
mode, by Power Switch, by OUTPUT button, by rear panel or by communication.	7. Output under voltage limit (UV	/L)		Prevents adju	istment of Vo	ut below limit							
Libration Libr	8. Output under voltage protecti	on (UVP)		Prevents adju mode, by Pov	stment of Vo ver Switch, by	ut below limit OUTPUT butt	. P.S output tu ton, by rear pa	rns Off during nel or by com	g under voltag imunication.	e condition. F	Reset by AC inp	out recycle in	autostart
Communication Functions - OVP_UVI_UVP_Follaback, OCL, ENA, ILC Communication Functions - Selection of Management - Over the Communication Interface. Communication Functions - Selection of Management - Over the Communication Interface - Over the Communication Functions - Selection of Management - Over the Communication Interface - Over the	FRONT PANEL												
Communication Functions - OVP_UVI_UVP_Follaback, OCL, ENA, ILC Communication Functions - Selection of Management - Over the Communication Interface. Communication Functions - Selection of Management - Over the Communication Interface - Over the Communication Functions - Selection of Management - Over the Communication Interface - Over the	1.Control functions			Multiple opti	ons with 2 En	coders							
Protection Functions - OVP_UV_UVP_Clotaback_OCL_ENA_ILC Communication Functions - Selection of LANSE_ERS332ASS48SUSS or Optional communication interface. Unitput ON/OFF, Front Panel Lock. Unitput ON/OFF, Front Panel Lock. Communication Functions - Selection of Saud Rate, Address, IP and communication language. Analog Control Functions - Selection of Voltage/resistive programing. 5V10V, SK10K programming 2.Display													
Communication functions - Selection of LANJEER, 85232,85485,USB or Optional communication interface.				OVP/UVL/UVI	P manual adju	ıst							
Usuput ON/OFF, Front Panel Lock.				Protection Fu	nctions - OVF	, UVL,UVP, Fol	dback, OCL, El	NA, ILC					
Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection of Valage/Current Monitoring SV/10V, SK/10K programming Analog Monitor Functions - Selection of Valage/Current Monitoring SV/10V,				Communicati	ion Functions	- Selection of	LAN,IEEE,RS2	32,RS485,USB	or Optional co	ommunicatio	n interface.		
Analog Control Functions - Selection Voltage/resistive programming, SV/10W, SK10W programming Analog Monitor Functions - Selection of Voltage/Current Monitor SV/10W, SK10W programming Analog Monitor Functions - Selection of Voltage (Variety Monitor Survival) Volut-4 digits, accuracy, 0.05% of rated output voltage +/-1 count. Voltage, Current, Power, CV, CC, PC, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (Communication, RFO/LSW) ANALOG (Variety Monitor) ENVISOMENTAL CONDITIONS 1. Operating temperature													
Analog Control Functions - Selection Voltage/resistive programming, SV/10W, SK10W programming Analog Monitor Functions - Selection of Voltage/Current Monitor SV/10W, SK10W programming Analog Monitor Functions - Selection of Voltage (Variety Monitor Survival) Volut-4 digits, accuracy, 0.05% of rated output voltage +/-1 count. Voltage, Current, Power, CV, CC, PC, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (Communication, RFO/LSW) ANALOG (Variety Monitor) ENVISOMENTAL CONDITIONS 1. Operating temperature							Baud Rate, Ad	dress, IP and	communication	on language.			
Analog Monitor Functions - Selection of Voltage/Current Monitoring SV/10V. Voltage (Current Monitoring M											ning		
Jouts 4 digits, scuracy; 0.2% of fated output current 4-1 count.				Analog Monit	tor Functions	- Selection of	Voltage/Curre	nt Monitorin	g 5V/10V.				
3.Front Panel Buttons Indications	2.Display			Vout: 4 digits	, accuracy: 0.0	5% of rated o	utput voltage	+/-1 count.	_				
4. Front Panel Display Indications				lout: 4 digits,	accuracy: 0.2	% of rated out	put current +/	-1 count.					
Communication, R5/USB/LAN/IEEE communication, Trigger, Load/Store Cell.	3.Front Panel Buttons Indications	5		OUTPUT ON,	ALARM, PREV	IEW, FINE, CO	MMUNICATION	N, PROTECTIC	N,CONFIGURA	ATION, SYSTE	M, SEQUENCER	₹.	
1.0perating temperature	4. Front Panel Display Indications	5		Voltage, Curr (communicat	ent, Power, C\ ion), RS/USB/	/, CC, CP, Exter LAN/IEEE com	nal Voltage, E munication, Ti	xternal Curre rigger, Load/S	nt, Address, LF Store Cell.	P, Autostart, S	Safetstart, Folc	dback V/I, Rem	iote
1.0perating temperature	ENVIRONMENTAL CONDITIONS												
2.Storage temperature			T	0~50°C 100%	h load								
3.Operating humidity					ioau.								
4.Storage humidity ### 10-95% RH (no condensation). ### 5.Altitude (*17) ### 10-95% RH (no condensation). ### 3.Departing: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m). ### MECHANICAL ### 1.Cooling ### 5.Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear ### 2.Weight ### 3.Dimensions (WxHxD) ### 3.Dimensions (WxHxD) ### 4.23, H.88, D:441.5 (Without busbars and busbars cover), ### 4.23, H.88, D:441.5 (Without busbars and busbars cover), ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 3.Dimensions (WxHxD) ### 3.Dimensions (WxHxD) ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.23, H.132.5, D:640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). ### 4.242 H.132.5 (D. chall (Including busbars and busbars cover), ### 4.23, H.132.5 (D. chall (Including busbars and busbars cover), ### 4.24.5 (Without busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and busbars cover), ### 4.25.5 (D. chall (Including busbars and b			_										
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1.Cooling 2.Weight GSP 10kW kg Less than 15.5kg. 3.Dimensions (WxHxD) GSP 10kW mm W.423, H:88, D. 441.5 (Without busbars and busbars cover), w.423, H:88, D. 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 2.Weight GSP 15kW kg Less than 23.5kg. 3.Dimensions (WxHxD) GSP 15kW mm W.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover), w.423, H:132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 4.Vibration	MECHANICAL												
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2.Weight GSP 15kW kg Less than 23.5kg. 3.Dimensions (WxHxD) GSP 15kW mm W: 423, H: 132.5, D: 441.5 (Without busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover), W: 420, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline dusing). W: 420, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline dusing). W: 420, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline dusing).	3.Dimensions (WxHxD)			W: 423, H: 88,	D: 441.5 (Wit				relief) (Refer to	Outline draw	ina).		
mm W: 423, H: 132.5, D: 441.5 (Without busbars and busbars cover), W: 423, H: 132.5, D: 440 (Including busbars and busbars cover), W: 423, H: 132.5, D: 460 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 4.Vibration	2.Weight	GSP 15kW	ka		-	J	12.12.20	,	, ,		J		
W: 42.5, H: 132.5, D: 404 (Including busbars and busbars are over, and strain relief) (Refer to Outline drawing). 4. Vibration	_			W: 423, H: 13	2.5, D: 441.5								
SAFETY/EMC 1.Applicable standards: Safety UL60950-1, CSA22.2 No.60950-1, IEC60950-1, EN60950-1. 1.1. Interface classification Vout ≤40V Models: Output, 11,12,13,14,15,16,17,18 (sense) and ,19 (communication options) are SELV. 605 Vout≤ 600V Models: Output, 18 (sense) are hazardous, 11,12,13,14,15,16,17 and 19 (communication options) are SELV. 605 Vout≤ 600V Models: Output, 18 (sense) are hazardous, 11,12,13,14,15,16,17 and 19 (communication options) are SELV. 605 Vout≤ 600V Models: Input - Output (SELV): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 850VDC 1min, Output - Ground: 2835VDC 1min. 100 <vout≤600v -="" 100<="" 100<vout≤600v="" 1275vdc="" 1min,="" 1min.="" 2835vdc="" 4242vdc="" ground:="" input="" models:="" output="" output:="" p="" selv:=""> 1.3 Insulation resistance 100Mohm at 25°C, 70%RH. 100 1.5 Insulation resistance 100Mohm at 25°C, 70%RH. 100 1.6 IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A. 100</vout≤600v>		GOT IONAA								efer to Outlin	e drawing).		
SAFETY/EMC 1.Applicable standards: Safety								nex C - 2.1.3.	1				
1.1. Interface classification Safety	5.Shock			Less than 200	, half sine, 11	mSec. Unit is u	ınpacked.						
1.1. Interface classification	SAFETY/EMC												
60≤ Vout≤ 600V Models: Output, J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 and J9 (communication options) are SELV	1. Applicable standards:	Safety		UL60950-1, C	SA22.2 No.60	950-1, IEC609	50-1, EN60950-	-1.					
60V≤Vout≤100V Models: Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 850VDC 1min, Output - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100<0vout≤600V Models: Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 1275VDC 1min, Output - Ground: 2500VDC 1min, Input - SELV: 4242VDC 1min, Input - SELV: 1275VDC 1min, Output - Ground: 2835VDC 1min. 1.3 Insulation resistance 2. Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 1275VDC 1min, Output - Ground: 2835VDC 1min. 1.3 Insulation resistance 2. Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 1275VDC 1min, Output - SELV: 1275VDC 1min, Output - SELV: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 424	1.1. Interface classification			Vout ≤40V Mo 60≤ Vout≤ 6	odels: Output 00V Models: 0	, J1,J2,J3,J4,J5 Output, J8 (ser	,J6,J7,J8 (sensense) are hazaro	e) and ,J9 (cor lous, J1,J2,J3,	nmunication o J4,J5,J6,J7 and	options) are SI d J9 (commun	ELV. ication option:	s) are SELV	
Output - Ground: 2500VDC 1min, Input - Ground: 2835VDC 1min.	1.2 Withstand voltage			60V≤Vout≤1 Output - Gro	00V Models: und: 1500V[Input - Outpu C 1min, Inpu	ut: 4242VDC ut - Ground: 2	1min, Input - 835VDC 1m	SELV: 4242\ in.	/DC 1min, O	utput - SELV:		,
2.Conducted emmision IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A . 3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A			1	Output - Gro	und: 2500V[DC 1min, Inpu	ut - Ground: 2	835VDC 1m	in. 4242\	ADO IIIIII, O	uipui - SELV:	12/3VDC 10	1111,
3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A	1.3 Insulation resistance												
	2.Conducted emmision			IEC/EN61204-	3 Industrial e	nvironment, A	Innex H table I	H.1 , FCC Part	15-A, VCCI-A .				
	3.Radiated emission			IEC/EN61204-	3 Industrial e	nvironment, A	nnex H table I	H.3 and H4, F	CC Part 15-A,	VCCI-A			
	4. EMC compliance	EMC(*18)											

- "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: Derate 15A/1°C above 40°C.

 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase

 *5: 3-Phase 2007 models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

 *6: Not including EMI filter inrush current, less than 0.2mSec.

 *7: 3-Phase 2007 models: 170-265Vac, 3-Phase 400/ models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.

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

 *9: For 10V-150V models: Measured with JEITA RC-9131C (1:1) probe. For 300-600V models: Measured with 100:1 probe.

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

 *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

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

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

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

 *14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.

 *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 *16: Measured at the sensing point.

 *17: For 10V model Ta derating 2°C/100m."

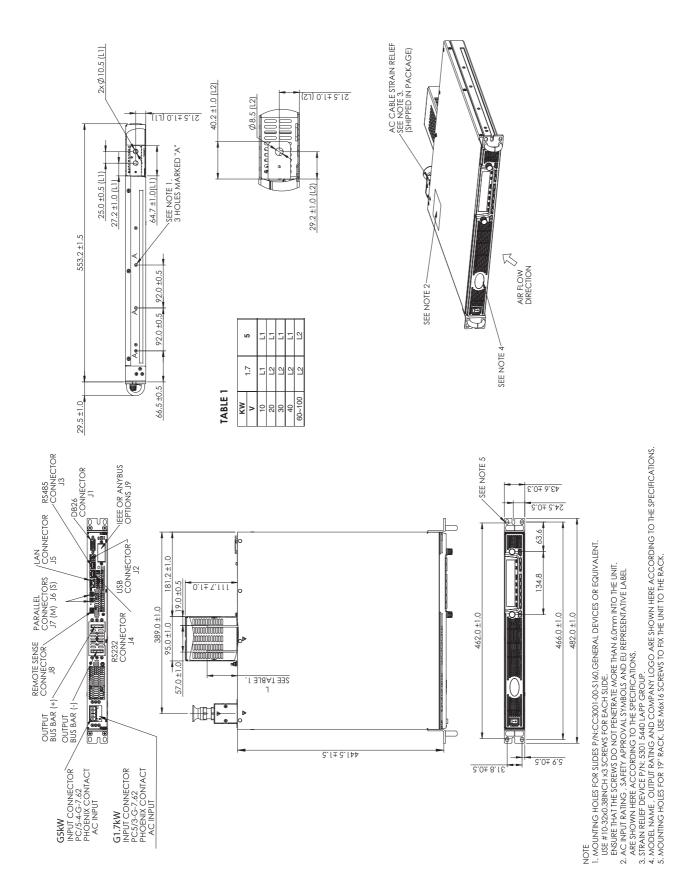
 *18: *Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

 *19: Max. ambient temperature for using IEEE is 40°C.

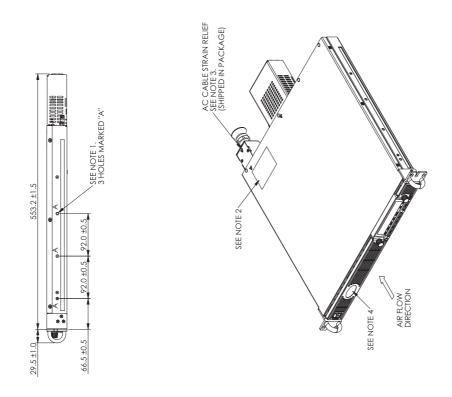
 *20: GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 3350A up to 30°C.

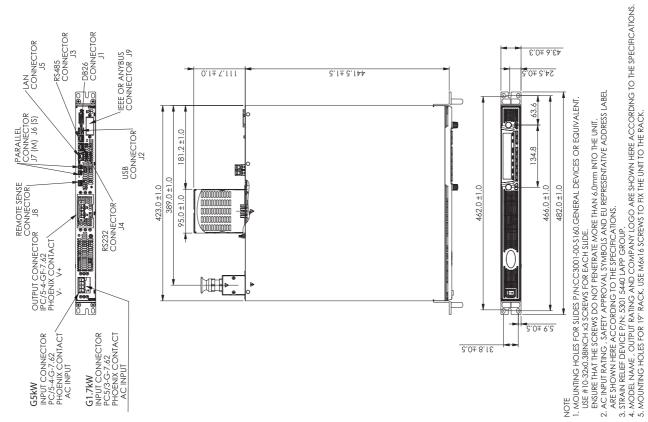
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Outline Drawing GENESYS™ G1.7kW & G5kW

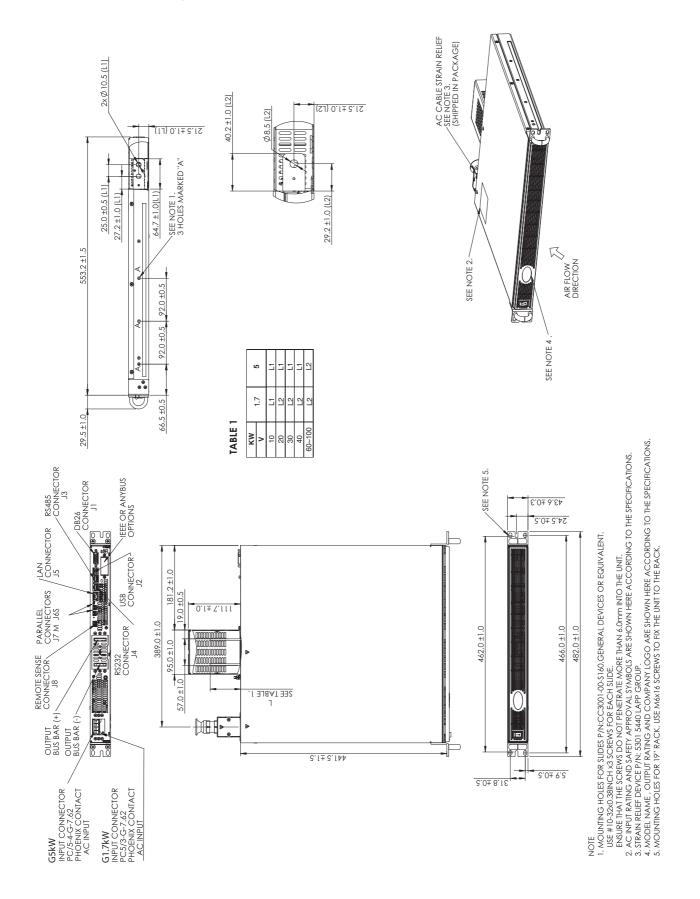


Outline Drawing GENESYS™ G1.7kW & G5kW (Models 150V/300V/600V)

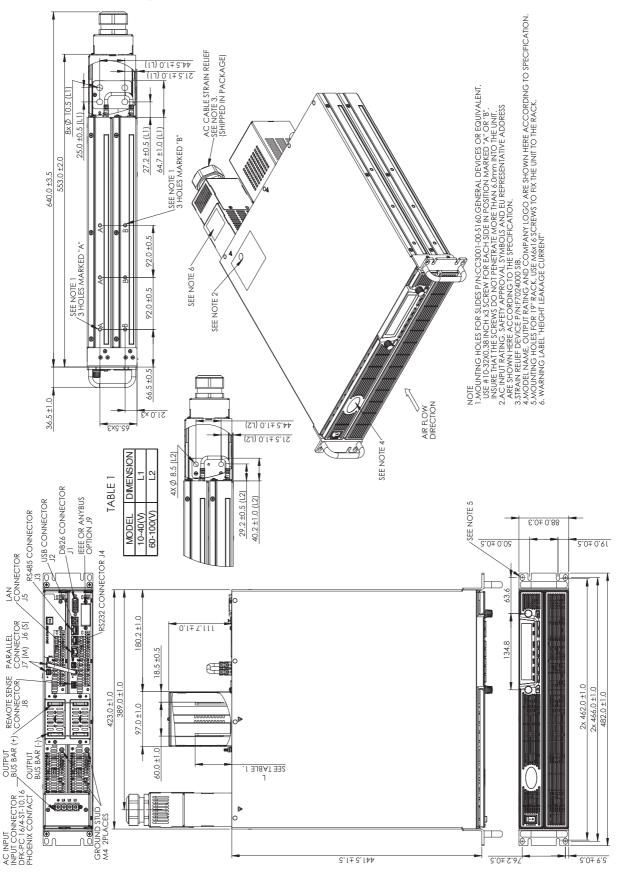




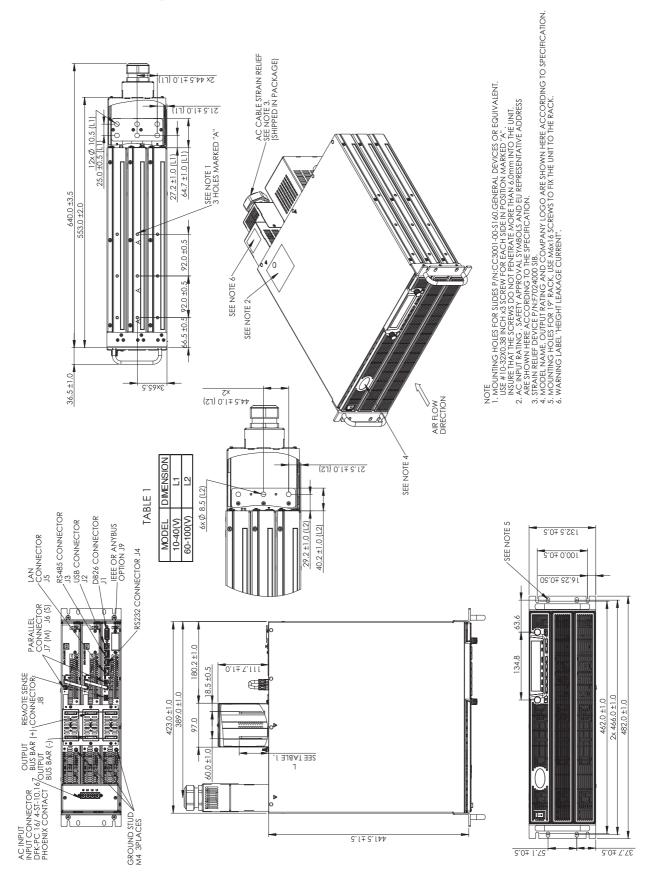
Outline Drawing **GENESYS™** GB1.7kW & GB5kW



Outline Drawing **GENESYS™** GSP10kW

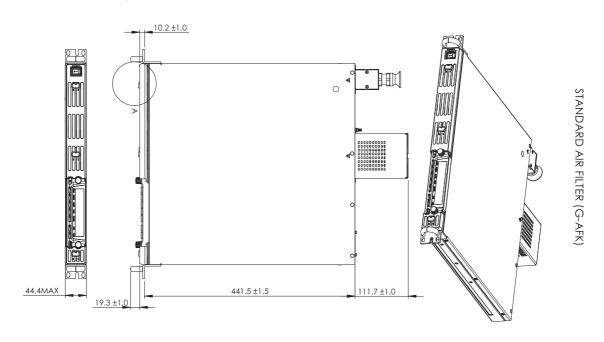


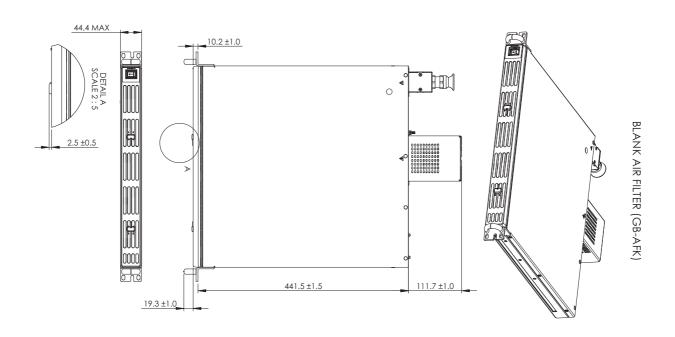
Outline Drawing **GENESYS™** GSP15kW



TDK·Lambda -

Outline Drawing **G**ENESYS[™] Air Filter Kit





Front Panel Air Filter Assembly

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

• Part Number (for standard unit): **G-AFK**



• Part Number (for unit with blank front panel): GB-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 (environmental):
- Operating Temperature
- For all models (except 10V): 0°C to +40°C; For 10V model: 0°C to +30°C, derate 5A/°C for 30°C < Ta < +40°C
- Altitude
- For all models (except 10V): derate 2°C/100m or 2% of load/100m (above 2000m)
- For 10V model: derate 1°C/100m or 2% of load/100m (above 2000m)

Filter Foam Technical Specifications

- · Material: reticulated polyurethane foam
- Thickness: 4.0mm
- · Porosity: 30ppi
- Operating Temperature Range: 0°C to +60°C
- Storage Temperature Range: -40°C to +85°C
- · Humidity: 95% RH

Air Filter Assembly Components

Standard Unit (P/N: G-AFK)

- Air Filter Cover (two pieces)
- Slide Button #1 (two locations: near AC ON/OFF switch and near left-hand side of front panel display)
- Slide Button #2 (one location: 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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