



GENESYS G Series

Programmable DC Power Supplies
Half-Rack 1.5kW in 1U Height
Full-Rack 1.7kW/2.7kW/3.4kW/5kW in 1U Height
GSP 10kW/15kW in 2U/3U Height

! Advanced Features Built-In!

Arbitrary Waveform Generator with Auto-Trigger Capability

 Programmable Slew Rate Control (Vout/lout)

 Constant Power Limit Operation • Internal Resistance Programming

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



TDK-Lambda
Innovating Reliable Power



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, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs:

G1.7kW: 1ø (85~265VAC)

G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)

G5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)

- 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-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed 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 30kW) 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.

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.
- 8. G2.7kW / G3.4kW / G5kW AC Input: 208VAC, 400VAC & 480VAC, Three Phase, 50/60 Hz. (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. G1.7kW / G2.7kW / G3.4kW AC Input Single Phase, 50/60 Hz.
 - AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

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



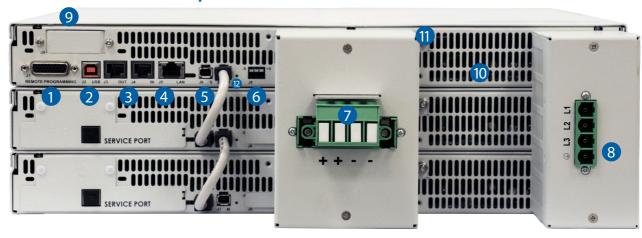
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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).
- 12. Reset button. Set default Power Supply settings.

GSP15kW Front Panel Description



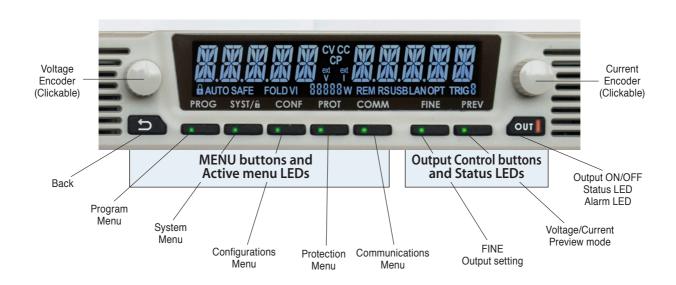
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

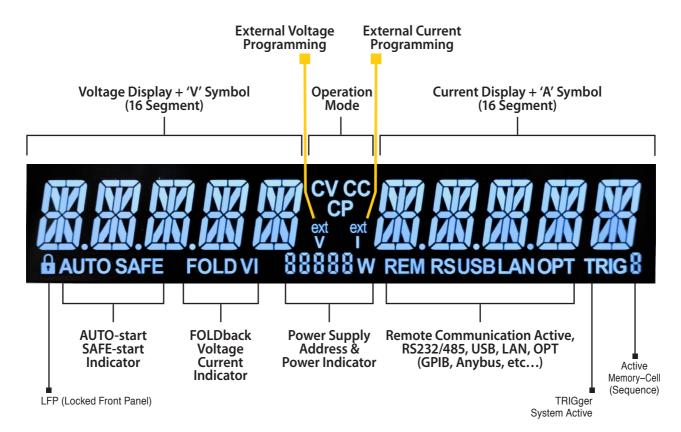


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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).
- 12. Reset button. Set default Power Supply settings.

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



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 six identical units to be connected

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

Separates Parallel Kit available for 30kW (6 unit) systems allowing easy system setup.

Order P/N: G/P - 6U

Series operation

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

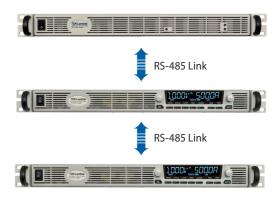
Multi-Drop Remote Programming via Communication Interface

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

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



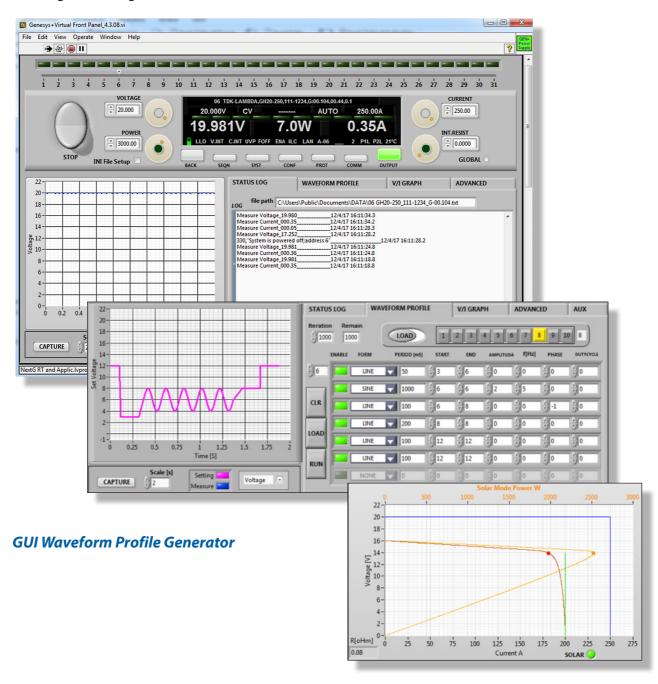




Graphical User Interface

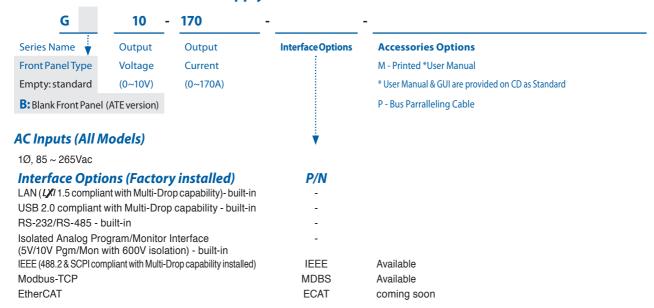
Advanced "Virtual Front Panel" allows programming and monitoring unit(s) with or without front panel display.

- 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.

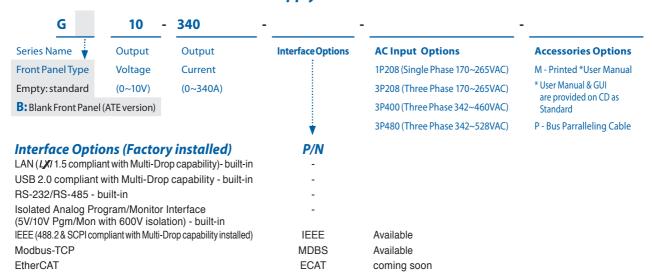
Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

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

Printed User Manual	G/M
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How to order G2.7kW/3.4kW - Power Supply Identification / Accessories



Models G2.7kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650	G80-34	0~80V	0~34	2720
G20-135	0~20V	0~135	2700	G100-27	0~100V	0~27	2700
G30-90	0~30V	0~90	2700	G150-18	0~150V	0~18	2700
G40-68	0~40V	0~68	2720	G300-9	0~300V	0~9	2700
G60-45	0~60V	0~45	2700	G600-4.5	0~600V	0~4.5	2700

Models G3.4kW

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

Accessories

Accessories will be sent 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.

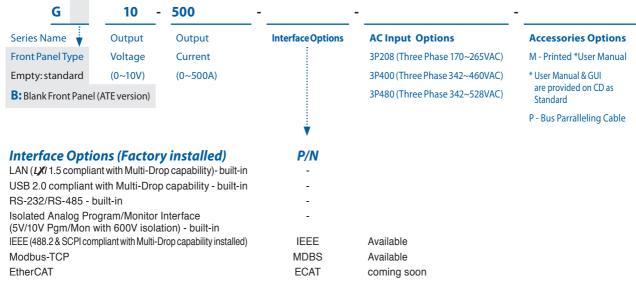
Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

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

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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	G200-25	0~200V	0~25	5000
G60-85	0~60V	0~85	5100	G300-17	0~300V	0~17	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

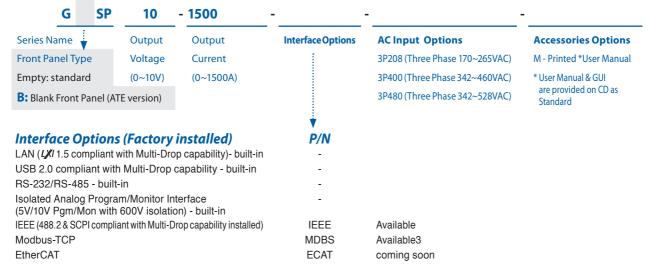
Connectors	Cables	P/N	
2013595-1 (TYCO)	13595-1 (TYCO) Shielded L=11cm		
4. User Manual		·	
Printed User Manual		G/M	

5. Parallel Kit: 20kW/30kW

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

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

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



Models GSP 10kW

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)	
GSP10-1000	0~10V	0~1000	10	GSF
GSP20-500	0~20V	0~500	10	GSF
GSP30-340	0~30V	0~340	10.2	GSF
GSP40-250	0~40V	0~250	10	GSF
GSP60-170	0~60V	0~170	10.2	GSI

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)
GSP80-130	0~80V	0~130	10.4
GSP100-100	0~100V	0~100	10
GSP150-68	0~150V	0~68	10.2
GSP200-50	0~200V	0~50	10
GSP300-34	0~300V	0~34	10.2
GSP600-17	0~600V	0~17	10.2

Models GSP 15kW

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)
GSP10-1500	0~10V	0~1500	15
GSP20-750	0~20V	0~750	15
GSP30-510	0~30V	0~510	15.3
GSP40-375	0~40V	0~375	15
GSP60-255	0~60V	0~255	15.3

Model	Output Voltage VDC	Output Current (A)	Output Power (kW)
GSP80-195	0~80V	0~195	15.6
GSP100-150	0~100V	0~150	15
GSP150-102	0~150V	0~102	15.3
GSP200-75	0~200V	0~75	15
GSP300-51	0~300V	0~51	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	G/M

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GENESYS[™] Family Output Voltage and Current

Models Series	G (Std Front Panel Display) GB (Blank Front Panel Display)				GSP (Scala	ble Power)
Rated Power	1.7kW	2.7kW	3.4kW	5kW	10kW	15kW
Voltage Range			Current F	Range (A)		
0-10V	0~170A	0~265A	0~340A	0~500A	0~1000A	0~1500A
0-20V	0~85A	0~135A	0~170A	0~250A	0~500A	0~750A
0-30V	0~56A	0~90A	0~112A	0~170A	0~340A	0~510A
0-40V	0~42A	0~68A	0~85A	0~125A	0~250A	0~375A
0-60V	0~28A	0~45A	0~56A	0~85A	0~170A	0~255A
0-80V	0~21A	0~34A	0~42A	0~65A	0~130A	0~195A
0-100V	0~17A	0~27A	0~34A	0~50A	0~100A	0~150A
0-150V	0~11.2A	0~18A	0~22.5A	0~34A	0~68A	0~102A
0-200V	-	-	-	0~25A	0~50A	0~75A
0-300V	0~5.6A	0~9A	0~11.5A	0~17A	0~34A	0~51A
0-600V	0~2.8A	0~4.5A	0~5.6A	0~8.5A	0~17A	0~25.5A
Weight (kg/lb)	5/11	6.25/14.3	6.25/14.3	7.5/16.5	15.5/34.2	23.5/51.8

AC Input Range

7131119						
Rated Power	1.7kW	2.7kW	3.4kW	5kW	10kW	15kW
1Ø, 85-265Vac	*	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac		*	*	N/A	N/A	N/A
3P208	N/A	*	*	*	*	*
3P400	N/A	*	*	*	*	*
3P480	N/A	*	*	*	*	*

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



Models	s Series	GH (Std Front Panel Display) GHB (Blank Front Panel Display)
Model	Rated Power	1.5kW
Model	Voltage Range	Current Range (A)
GH10-150	0-10V	0~150A
GH20-75	0-20V	0~75A
GH30-50	0-30V	0~50A
GH40-38	0-40V	0~38A
GH60-25	0-60V	0~25A
GH80-19	0-80V	0~19A
GH100-15	0-100V	0~15A
GH150-10	0-150V	0~10A
GH300-5	0-300V	0~5.0A
GH600-2.6	0-600V	0~2.6A

GENESYS[™] 1.7kW SERIES SPECIFICATIONS

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
I.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
.Rated output current (*2)		A	170	85	56	42	28	21	17	11.2	5.6	2.8
.Rated output power		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
NPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
.Input voltage/freg. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						
. Maximum Input current at 100	% load (100/200)	Α	20/10									
.Power Factor (Typ)			0.99 @ 100Va	c 0.98@200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, ra	ted output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		Α	Less than 50A	A								
ONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
			0.01% of rate			40	00	00	100	150] 300	000
.Max. Line regulation (*6)												
.Max. Load regulation (*7)	(74)	_	0.01% of rate									
.Ripple and noise (p-p, 20MHz)	(*8)	mV	50	50	50	60	60	75	75	75	120	500
.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	12	8	20	100
.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, foll	owing 30 min	utes warm-up					
.Temperature stability			0.01% of rate	d Vout over 8l	nrs interval foll	lowing 30 min	utes warm-up	. Constant line	e, load & temp	p.		
. Warm-up drift			Less than 0.0	1% of rated ou	itput voltage+	2mV over 30 r	ninutes follow	ing power on.				
S.Remote sense compensation/w	rire (*10)	V	1	1	5	5	5	5	5	5	5	5
.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100
top progracisponse time (11)	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
0.Down-prog.response time:	Full load (*12)	_									_	
	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
1.Transient response time		mS			recover withir than 1mS, for					rated output c	urrent. Outpu	t set-point
2.Hold-up time		m°	10~100%, £0	cai serise. Less			and including ms typical, rat			ve 100V.		
z.i ioiu-up time		mS				161	ııs typical, rat	eu output pov	vei			
ONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)			0.01% of rate	d output curre	ent. +2mA							
.Max. Load regulation (*9)			0.02% of rate									
.Ripple r.m.s. @ rated voltage. B.	M 5Hz~1MHz (*13)	mA	≤400	≤160	≤100	≤60	≤50	≤30	≤30	≤10	≤8	≤5
.npple i.iii.s. @ rated voitage. b.	VV 3112**11VII12. (13)	IIIA			om rated outp					310		
Temperature coefficient		PPM/°C										
		-			m rated outpu							
.Temperature stability					rs. interval foll							
. Warm-up drift			10V~100V mo	odel: Less than			irrant augr 20		wing nower o			
. Waiti ap aint										on.		
-			150V~600V: L		1 +/-0.25% of r .15% of rated c					on.		
·	AONITORING (ISOI ATER									on.		
NALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPUT)	ess than +/-0	.15% of rated o	utput current	over 30 minu	tes following p	oower on.	on.		
NALOG PROGRAMMING AND N Vout voltage programming		FROM T	HE OUTPUT) 0~100%, 0~5	Less than +/-0.	15% of rated of	output current	over 30 minu linearity: +/-0	tes following p	oower on. /out.	on.		
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NNALOG PROGRAMMING AND N Vout voltage programming Lout voltage programming (*14		FROM T	HE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us	15% of rated of	Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0	tes following p .15% of rated \ .4% of rated lo	oower on.	on. 		
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INALOG PROGRAMMING AND A Vout voltage programming (*14 Vout voltage programming (*14 Vout resistor programming (*14 Vout voltage monitor Output voltage monitor Output current monitor (*14) IGNALS AND CONTROLS (ISOLA Power supply OK #1 signal CV/CC signal CV/CC signal INTERLOCK (ILC) control Programmed signals INTERLOCK (ILC) control Programmed signals ODAISY_IN/SO control signal ODAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control Arbitrary waveforms ROGRAMMING AND READBA S232/485, Optional IEEE (*18 Vout programming accuracy (*1 Lout programming resolution Vout readback accuracy	ATED FROM THE OUTPU	D FROM T	HEOUTPUT) 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 Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Enab	V or 0~10V, us V or selector V output moni or. Open colle le analog pro amming contr lele PS output I sin programm wall level inpur: Trum=10us n voltage: 0~0.6 V (500ohm imp to 4 identical unit es can be con tput power to les can be con tput power to les resistance. le Output rise le Output rise le Output rise on ports or th to 100 steps of d output volt l output curre ed output volt ed outpu	ser selectable. ser selectable. ser selectable. scale, user sele able. Accuracy a	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 acy and linear acy	tes following p 15% of rated \\ 4% of rated \\ 15% of rated \	Jouwer on. Jout. Jout. Jout. Jout. Jout. Jout. Jout. Journal Jour	ie: 30V, Maximu Sink Current: 10 Or short. Loca If sage: 30V, Max er selectable lc OV or open. hunted by 27V kimum high l S. or the front par ports or the front or A/mSec. Pi munication po	OmA. II: 2~30V or op kimum Sink Cuogic. / zener) evel input = nel. ont panel. rogramming v	en. 5V positive via the cont panel.
NALOG PROGRAMMING AND A Nout voltage programming (*14 Nout resistor programming (*14 Nout voltage programming (*14 Nout voltage programming (*14 Output voltage monitor Output current monitor (*14) GRANES AND CONTROLS (ISOLA Power supply OK #1 signal CV/CC signal COCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals TRIGGER IN / TRIGGER OUT signal ODAISY_IN/SO control signal ODAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Output resistance control Output resistance control Slew rate control Arbitrary waveforms PROGRAMMING AND READBA RES232/485, Optional IEEE (*18 Nout programming accuracy (*1 Lout programming resolution	ATED FROM THE OUTPU	T)	HEOUTPUT) 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 Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Enab	V or 0~10V, us V or 0	ser selectable. ser selectable. ser selectable. scale, user sele able. Accuracy a	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 acy and linear acy	tes following p 15% of rated \\ 4% of rated \\ 15% of rated \	Jouwer on. Jout. Jout. Jout. Jout. Jout. Jout. Jout. Journal Jour	ie: 30V, Maximu Sink Current: 10 Or short. Loca If sage: 30V, Max er selectable lc OV or open. hunted by 27V kimum high l S. or the front par ports or the front or A/mSec. Pi munication po	OmA. II: 2~30V or op kimum Sink Cuogic. / zener) evel input = nel. ont panel. rogramming v	en. 5V positive via the cont panel.
ANALOG PROGRAMMING AND A Nout voltage programming (*14 Nout voltage programming (*14 Nout resistor programming (*14 Output voltage monitor Output voltage monitor (*14) GOUTH CONTROLS (ISOLA POWER SUPPLY K #1 Signal COVICC Signal LOCAL/REMOTE Analog contro LOCAL/REMOTE Analog signal ENABLE/DISABLE signal	ATED FROM THE OUTPU	T)	HEOUTPUT) 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 Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Enab	V or 0~10V, us V or selector V output moni or. Open colle le analog pro amming contr lele PS output I sin programm wall level inpur: Trum=10us n voltage: 0~0.6 V (500ohm imp to 4 identical unit es can be con tput power to les can be con tput power to les resistance. le Output rise le Output rise le Output rise on ports or th to 100 steps of d output volt l output curre ed output volt ed outpu	ser selectable. ser selectable. ser selectable. scale, user sele able. Accuracy a	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 acy and linear acy	tes following p 15% of rated \\ 4% of rated \\ 15% of rated \	Jouwer on. Jout. Jout. Jout. Jout. Jout. Jout. Jout. Journal Jour	ie: 30V, Maximu Sink Current: 10 Or short. Loca If sage: 30V, Max er selectable lc OV or open. hunted by 27V kimum high l S. or the front par ports or the front or A/mSec. Pi munication po	OmA. II: 2~30V or op kimum Sink Cuogic. / zener) evel input = nel. ont panel. rogramming v	en. 5V positive via the cont panel.

GENESYS™ 1.7kW SERIES SPECIFICATIONS

DROTECTIVE FUNCTIONS		V	10	20	20	40	60	90	100	150	200		600
PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300		600
1. Foldback protection									CC mode or fro OUTPUT butt			/ mode nmunic	ation.
2.Over-voltage protection (OVP)									on, by rear par				
 Over -voltage programming rar 		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
 Over-voltage programming ac 			+/-1% of rate										
5.Output under voltage limit (UV	L)							programming	j. Preset by fro	nt panel or co	mmunicatio	n port.	
6.Over temperature protection						y autostart mo	de.						
7. Output under voltage limit (UV	L)				ut below limit								
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 on, by rear pa	rns Off during nel or by com	under voltag munication.	je condition. R	leset by AC inp	out recycle ir	autost	art
FRONT PANEL													
1.Control functions			Multiple opti										
			Vout/Iout/Po										
			OVP/UVL/UVI										
						dback, OCL, EI							
						LAN,IEEE,RS2	32,RS485,USB	or Optional c	ommunicatio	n interface.			
			Output ON/O										
						Baud Rate, Ad							
									10K programn	ning			
2.DiI						Voltage/Curre		g 5V/10V.					
2.Display						utput voltage put current +/							
3.Front Panel Buttons Indications								N CONFICUR	ATION, SYSTEM	A SECULENCE)		
3.Front Panel Buttons indications	1												
4. Front Panel Display Indications			(communicat	ent, Power, Ci ion), RS/USB/	V, CC, CP, Exter LAN/IEEE com	mai Voltage, E munication, Ti	rigger, Load/S	nt, Address, Li Store Cell.	P, Autostart, S	safetstart, Fold	dback V/I, Re	mote	
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 100%	load.									
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RH (ı	no condensat	ion).								
4.Storage humidity		%	10~95% RH (r	no condensat	ion).								
5.Altitude (*16)						ent derating 20	%/100m or Ta	derating 1°C/	100m above 2	000m Non on	erating: 400	00ft (12	000m)
MECHANICAL			Topciumg. 10		i,, output curr	ent deruting 2	707 10011101 10	deruting i e/	TOOM GDOVE 2	ооони. теон ор	cruting. 100	0011 (12	200111).
			Fannadainan	. Ita a la citada a	! f A: fl-		Г+						
1.Cooling					nai tans. Air tic	w direction: fi	om Front par	iei to power s	uppiy rear				
2.Weight		kg	Less than 5kg										
3.Dimensions (WxHxD)		mm	W: 423, H: 4 W: 423, H: 4	3.6, D: 441.5 3.6, D: 553.5	ร์ (Without bu ร์ (Including b	ısbars and bu ousbars and b	usbars cover ousbars cove), er) (Refer to (Outline draw	ing).			
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition Ar	nex C - 2.1.3.1	1					
5.Shock			Less than 200	, 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	Surety		Vout ≤40V Mo	odels: Output	, J1,J2,J3,J4,J5	,J6,J7,J8 (sense	and ,J9 (con	nmunication	options) are SE d J9 (communi	ELV.	s) are SFLV		
											J, GIC JEEV		
									335VDC 1mir				
1.2 Withstand voltage						it: 4242VDC it - Ground: 2			/DC 1min, Ou	utput - SELV:	850VDC 1n	nın,	
			100 <vout≤6 Output - Gro</vout≤6 	00V Models: und: 2500V[Input - Outpu OC 1min, Inpu	ut: 4242VDC ıt - Ground: 2	1min, Input - 835VDC 1mi	SELV: 4242\ in.	VDC 1min, Ou	utput - SELV:	1500VDC 1	min,	
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.									
2.Conducted emmision				-	nvironment A	nnex H table I	H.1 . FCC Part	15-A. VCCI-A					
3.Radiated emission						nnex H table I			VCCI-A				
	EMC(*17)						1.5 anu 114, F	CCT att 15-A,	V CCI-A				
4. EMC compliance	EMC(*17)		According to	IEC/EN61204	-3 Industrial er	ivironment							

GENESYS[™] 2.7kW SERIES SPECIFICATIONS

OUTDUT DATING			10 365	20 125	20.00	40.00	60 45	90.34	100.37	150 10	200.0	600 4 5
OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		V	10 265	20 135	30 90	40 68	60	80 34	100	150 18	300 9	600 4.5
2.Rated output current (*2) 3.Rated output power		A W	2650	2700	2700	68 2720	45 2700	2720	27 2700	2700	2700	2700
									1	,		
INPUT CHARACTERISTICS		V	10 2 Dhasa 200	20 / madals: 170	30	40	60	80	100	150	300	600
					~265Vac, 47~6 !~460Vac, 47~			/ac)				
1.Input voltage/freq. 3 phase, 3 v	vire + Ground (*4)							7ac) 140/460/480Va	ac)			
					~265Vac, 47~6				10)			
	3-Phase, 200V models:		10A @ 200Va		203140, 7/~(.S. 12 (CUVCIS 2	-00/200/200/2	vucj				
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va									
100% load	3-Phase, 480V models:		5.5A @ 380Va									
	1-Phase, 200V models:		16A @ 200Va									
3.Power Factor (Typ)			For 3-Phase:	0.94 @ 200/38	0Vac, rated οι	itput power.						
					, rated output					1		r
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50A	١								
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	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	,	mV	8	10	10	12	12	15	15	20	60	100
5.Temperature coefficient		PPM/°C			ut voltage, fol		L					
6.Temperature stability								ıp. Constant lir	na land & tam	in.		
										ip.		
7. Warm-up drift	wiro (*10)	V					1	wing power o	1	r	E	r
8.Remote sense compensation/v	wiie (* IU)		2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F. II I I (*444)	mS c	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
, ,3,,	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3000
11.Transient response time		mS	Time for outp	out voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chang	ge 10~90% of	rated output	current. Outp	ut set-point:
					s uidii IMS, TO	mouels up to	anu includin	ıg 100V. 2mS, f	or models ab	ove 100V.	_	
12.Start up delay		Sec	Less than 6 Se	···								
CONSTANT CURRENT MODE		٧	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. @ rated voltage. 3	-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-	-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
			10V~100V	100PPM/°C fr	rom rated out	out current, fo	llowing 30 m	inutes warm-u	ıp.			
5.Temperature coefficient		PPM/°C						nutes warm-up	•			
6.Temperature stability								p. Constant lir		perature.		
onemperature stability								0 minutes follo				
7. Warm-up drift								utes following		011.		
				.033 (11011 +/-0	.15 /0 01 18 (eu v	output curren	t over 50 min	utes following	power on.			
ANALOG PROGRAMMING AND I	MONITORING (ISOLATED	FROM 1	HE OUTPUT)									
1.Vout voltage programming			0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*1	5)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	l linearity: +/-	0.4% of rated I	out.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accur	racy and linea	rity: +/-0.5% o	f rated Vout.			
4.lout resistor programming (*15	5)		0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accur	racy and linea	rity: +/-0.5% o	f rated lout.			
5.Output voltage monitor			0~5V or 0~10	V, user select	able. Accuracy	r· ±/-0.5%						
6.Output current monitor (*15)			05V or 010	V, user select	11 4							
					abie. Accuracy							
SIGNALS AND CONTROLS (ISOL			0~3 0 0 0~10	vy user sereet	able. Accuracy							
	ATED FROM THE OUTPU	T)				r: +/-0.5%.		. 00				
1. Power supply OK #1 signal	ATED FROM THE OUTPU	T)	Power supply	output mon	itor. Open coll	r: +/-0.5%. ector. Output		out Off: Off. Ma				ent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal		T)	Power supply	output mon	itor. Open coll	r: +/-0.5%. ector. Output :: On. CV mode	e: Off. Maximi	um Voltage: 30	V, Maximum	Sink Current:	10mA.	
1. Power supply OK #1 signal		T)	Power supply CV/CC Monito Enable/Disab	output mon or. Open colle le analog pro	itor. Open coll ector. CC mode ogramming co	ector. Output :: On. CV modentrol by electr	e: Off. Maximu rical signal or	um Voltage: 30 dry contact. R	OV, Maximum emote: 0~0.6	Sink Current: V or short. Loc	10mA. :al: 2~30V or o	pen.
Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog contro LOCAL/REMOTE Analog signal	lo	T)	Power supply CV/CC Monito Enable/Disab analog progra	output mon or. Open colle le analog pro amming contr	itor. Open coll ector. CC mode ogramming co ol monitor sign	ector. Output :: On. CV mode ntrol by electronal. Open colle	e: Off. Maximu rical signal or ector. Remote:	um Voltage: 30 dry contact. R On. Local: Off.	0V, Maximum emote: 0~0.6 Maximum Vo	Sink Current: V or short. Loc Itage: 30V, Ma	10mA. :al: 2~30V or o ximum Sink Cu	pen.
Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control	lo	T)	Power supply CV/CC Monito Enable/Disab analog progra	output mon or. Open colle le analog pro amming contr	itor. Open coll ector. CC mode ogramming co ol monitor sign	ector. Output :: On. CV mode ntrol by electronal. Open colle	e: Off. Maximu rical signal or ector. Remote:	um Voltage: 30 dry contact. R	0V, Maximum emote: 0~0.6 Maximum Vo	Sink Current: V or short. Loc Itage: 30V, Ma	10mA. :al: 2~30V or o ximum Sink Cu	pen.
Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog contro LOCAL/REMOTE Analog signal	lo	T)	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab	output mon or. Open colle le analog pro amming contr le PS output	itor. Open coll ector. CC mode ogramming co ol monitor sign by electrical si	ector. Output :: On. CV mode ntrol by electronal. Open collegonal or dry co	e: Off. Maximurical signal or ector. Remote:	um Voltage: 30 dry contact. R On. Local: Off.	OV, Maximum emote: 0~0.6 Maximum Vo OV or open. Us	Sink Current: V or short. Loc Itage: 30V, Ma ser selectable	10mA. :al: 2~30V or o ximum Sink Cu	pen.
Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal	lo	T)	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab	output moni or. Open colle le analog pro amming contr le PS output l	itor. Open coll ector. CC mode ogramming co ool monitor sign by electrical si by electrical si	ector. Output c: On. CV mod ntrol by electr nal. Open colle gnal or dry co	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~	Sink Current: V or short. Loo Itage: 30V, Ma: ser selectable 30V or open.	10mA. :al: 2~30V or o ximum Sink Cu logic.	pen.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ol	T)	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum lo	r output moni or. Open colle le analog pro amming contr le PS output l le PS output l sin programm	itor. Open coll cctor. CC mode gramming co ol monitor sigu by electrical si by electrical si able signals. I	ector. Output : On. CV mode ntrol by electr nal. Open colle gnal or dry co gnal or dry co Maximum volt 0.8V,Minimu	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V ontact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur I input voltac	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sign = 2.5V, Maximum)	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
Power supply OK #1 signal CV/CC signal LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control	ol	T)	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum lo	r output moni or. Open colle le analog pro amming contr le PS output l le PS output l sin programm	itor. Open coll cctor. CC mode gramming co ol monitor sigu by electrical si by electrical si able signals. I	ector. Output : On. CV mode ntrol by electr nal. Open colle gnal or dry co gnal or dry co Maximum volt 0.8V,Minimu	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V ontact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sign = 2.5V, Maximum)	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ol	T)	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge	r output moni or. Open colle ele analog pro emming contr ele PS output ele PS output sin programm ow level inpur: tw=10us n	itor. Open coll cctor. CC mode gramming co ol monitor sigu by electrical si by electrical si able signals. I	ector. Output c: On. CV mode ntrol by electri nal. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu rf=1us Maxim	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V ontact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur I input voltac	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sign = 2.5V, Maximum)	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum le edge trigge By electrical	output monion. Open colle elle analog pror elle PS output l elle PS output	itor. Open coll cctor. CC mode gramming co ol monitor sigi by electrical si by electrical si able signals. I ut voltage = 1 ninimum. Tr,	ector. Output c: On. CV mode ntrol by electri nal. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu rf=1us Maxim	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V ontact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur I input voltac	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sign = 2.5V, Maximum)	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum le edge trigge By electrical	output monion. Open colle elle analog pror elle PS output l elle PS output	itor. Open coll cctor. CC mode gramming co ol monitor sigi by electrical si by electrical si nable signals. I ut voltage = { ninimum. Tr, 50/2~30V or d	ector. Output c: On. CV mode ntrol by electri nal. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu rf=1us Maxim	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V ontact. Remote: age 25V, Maxim high level	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur I input voltac	DV, Maximum emote: 0~0.6 Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (Sign = 2.5V, Maximum)	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical v 4~5V=OK, 0V	output monior. Open colle le analog pro amming contri le PS output l isin programm ow level inpur: tw=10us n /oltage: 0~0.6 (500ohm imp	itor. Open coll ector. CC mode ogramming co ol monitor sign by electrical si by electrical si nable signals. I tu voltage = ninimum. Tr, 5V/2~30V or di pedance)=Fail	r: +/-0.5%. ector. Output : On. CV mod ntrol by electr nal. Open colle gnal or dry co gnal or dry co daximum voll 0.8V, Minimu 'f=1us Maxin ry contact.	e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V intact. Remot tage 25V, Max m high level num, Min de	um Voltage: 36 dry contact. R: On. Local: Off. f or short, 2~36 e: 0~0.6V or shimum sink cur I input voltag lay between	DV, Maximum emote: 0~0.6' Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (: ge = 2.5V, Ma 2 pulses 1m	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	ol	T)	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	routput monor. Open collele analog pros mming contrible PS output lie PS output lin programmow level input: tw=10us no /oltage: 0~0.0 (500ohm impos 4 identical	itor. Open coll ector. CC mode gramming co ol monitor sig by electrical si by electrical si able signals. I ut voltage = (ninimum. Tr, 50/2~30 or d pedance)=Fail units in Maste	r: +/-0.5%. ector. Output r: On. CV mode ntrol by electrial. Open colle gnal or dry co gnal or dry co Maximum volt 0.8V, Minimu f=1us Maxin ry contact.	e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level num, Min de	um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur I input voltac	DV, Maximum emote: 0~0.6' Maximum Vo DV or open. Us nort. Local: 2~ rrent 100mA (: ge = 2.5V, Ma 2 pulses 1m	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	ol	T)	Power supply CV/CC Monite Enable/Disab analog progre Enable/Disab Two open dra Maximum Ie edge trigge By electrical ¹⁴ 4~5V=OK, 00 Possible. Up 1 Possible. Two	routput monor. Open colle le analog pro mming contr le PS output l le PS output l le PS output l iin programm ow level inpur: tw=10us n /oltage: 0~0.0 (5000hm imp	itor. Open coll cctor. CC mode gramming co ol monitor sigi by electrical si by electrical si able signals. I ut voltage = (ninimum. Tr, soV/2~30V or d pedance)=Fail units in Maste ts. Refer to ins	r: +/-0.5%. ector. Output: : On. CV mode ntrol by electrial. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu f=1us Maxim ry contact.	e: Off. Maximi rical signal or ector. Remote: ontact. 0~0.6V intact. Remot iage 25V, Max m high level num, Min de	um Voltage: 3Cdry contact. Ri- On. Local: Off. or short, 2~3Ce: 0~0.6V or sh- imum sink cur I input voltagelay between uction manua	OV, Maximum emote: 0~0.6' Maximum Vo OV or open. Us nort. Local: 2~ rrent 100mA (' ge = 2.5V, Ma 2 pulses 1m	Sink Current: Vor short. Loc Itage: 30V, Ma: Ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
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_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra: Maximum le edge trigge By electrical '4—5V=OK, 0V Possible. Up I Possible. Two Power suppli	r output monor. Open collele analog pro summing controlle PS output lie PS output lie PS output liin programm ow level inpurs true-lous n (5000hm im) od 4 identical unies can be con be con be con the collection of the controllection of the co	itor. Open coll cctor. CC mode gramming co ol monitor sigi by electrical si by electrical si able signals. I at voltage = (ninimum. Tr, 6V/2~30V or d pedance)=Fail units in Maste ts. Refer to ins inected in Dais	r: +/-0.5%. ector. Output :: On. CV mode ntrol by electr hal. Open colle gnal or dry co gnal or dry co daximum volt D.8V,Minimu f=1us Maxim ry contact.	e: Off. Maximurical signal or ector. Remote: ontact. 0~0.6V mitact. Remote: orage 25V, Max m high level num, Min de	um Voltage: 30 dry contact. Ri On. Local: Off. 'or short, 2~30 e: 0~0.6V or sh imum sink cur li input voltagelay between uction manua	OV, Maximum emote: 0~0.6' Maximum Vo OV or open. Us ort. Local: 2~ rrent 100mA (' ge = 2.5V, Ma 2 pulses 1m	Sink Current: V or short. Loc Itage: 30V, Ma: ser selectable 30V or open. Shunted by 27 xximum high s.	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener) I level input =	pen. rrent: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. 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	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Maximum Ib edge trigge By electrical 4–5V=OK, 0V Possible. Up to Possible. Up to Power suppli Limits the ou	output monor. Open collelle analog pro mming controllel Soutput lie PS output lie PS o	itor. Open coll cctor. CC mode gramming co ol monitor sign by electrical si nable signals. I at voltage = (ninimum. Tr, sov/2~30V or di pedance)=Fail units in Maste ts. Refer to ins inected in Dais o a proggramn	ector. Output : On. CV mode ntrol by electr lal. Open collel gnal or dry co gnal or dry co Maximum volt D.8V, Minimu rf=1us Maxim ry contact.	e: Off. Maximirical signal or sector. Remote: intact. 0~0.6V intact. 0~0.6V intact. 0~0.6V may be a case as a case a	um Voltage: 30 dry contact. Ri On. Local: Off. 'or short, 2~30 e: 0~0.6V or sh imum sink cur li input voltagelay between uction manua ir turn-on and a the commun	DV, Maximum emote: 0~0.6i Maximum Vo DV or open. Usi ort. Local: 2~ rrent 100mA (i) ge = 2.5V, Max 2 pulses 1m I. turn-off.	Sink Current: V or short. Loc ltage: 30V, Mai ser selectable 30V or open. Shunted by 27 ximum high s.	10mA. cal: 2~30V or o kimum Sink Cu logic. TV zener) I level input =	pen. rrent: 10mA.
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_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Maximum Ib edge trigge By electrical 4–5V=OK, 0V Possible. Up to Possible. Two Power suppli Limits the ou Emulates seri	output monor. Open collele analog pro mming contribe PS output lie PS output lie PS output lie PS output limprogramm with level in programm of lottage: 0~0.0(5000hm improgramm) of 4 identical lidentical uidentical uidentical ses can be contput power tees resistance.	itor. Open coll cctor. CC mode gramming co ol monitor sign by electrical si by electrical si by electrical si to by electrical si by electrica	r: +/-0.5%. ector. Output r: On. CV modo ntrol by electria al. Open colle gnal or dry co daximum volt J. 8V, Minimu rf-E-Ius Maxim y contact. r/Slave mode. truction man ty chain to syr ned value. Pro- nge: 1~1000m	e: Off. Maximirical signal or sector. Remote: intact. 0 – 0.6V intact. 0	um Voltage: 30 dry contact. Ri On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur li input voltagelay between uction manua ir turn-on and a the commun ning via the co	DV, Maximum emote: 0~0.6i Maximum Vo DV or open. U: Or Or	Sink Current: V or short. Loc ltage: 30V, Mai ser selectable 30V or open. Shunted by 27 ximum high s.	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener) I level input =	pen. rrent: 10mA. = 5V positive
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. 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	ol	T)	Power supply CV/CC Monite Enable/Disak analog progre Enable/Disak Two open dra: Maximum le edge trigge By electrical 4–5V=OK, 00 Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri	routput monor. Open colle le analog pro mming control le PS output le PS output le PS output le PS output lin programm ow level input r: tw=10us n/oltage: 0~0.0 (5000hm im) od 4 identical uni es can be contput power te es resistance. le Output riske le O	itor. Open coll cctor. CC mode gramming co of monitor sign by electrical si bable signals. I ut voltage = ninimum. Tr, SoV/2~30V or d pedance)=Fail units in Maste ts. Refer to ins inected in Dais o a proggramn Resistance ra e and Output f	r: +/-0.5%. ector. Output r: On. CV modo ntrol by electria al. Open colle gnal or dry co daximum volt J. 8V, Minimu rf-E-Ius Maxim y contact. r/Slave mode. truction man ty chain to syr ned value. Pro- nge: 1~1000m	e: Off. Maximirical signal or sector. Remote: intact. 0 – 0.6V intact. 0	um Voltage: 30 dry contact. Ri On. Local: Off. 'or short, 2~30 e: 0~0.6V or sh imum sink cur li input voltagelay between uction manua ir turn-on and a the commun	DV, Maximum emote: 0~0.6i Maximum Vo DV or open. U: Or Or	Sink Current: V or short. Loc ltage: 30V, Mai ser selectable 30V or open. Shunted by 27 ximum high s.	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener) I level input =	pen. rrent: 10mA. = 5V positive
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_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	ol	T)	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra: Maximum le edge trigge By electrical 4–5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri	routput monor. Open collele analog pro mming controllele Soutput lie PS output lie PS output lie PS output liin programm ow level inpurs the lous in Yoltage: 0 ~ 0.0 (5000 hm imports and in the light power to be series stance. It is output power to series stance.	itor. Open coll cctor. CC mode gramming co ol monitor sign by electrical si by electrical si abble signals. I at voltage = (ninimum. Tr, 6V/2~30V or d pedance)=Fail units in Maste ts. Refer to ins enected in Dais o a proggramn Resistance ra e and Output f e e front panel.	r: +/-0.5%. ector. Output: : On. CV mode ntrol by electral. Open colle gnal or dry co gnal or dry co daximum volt 0.8V,Minimu f=1us Maxim ry contact. r/Slave mode, truction man ry chain to syr ned value. Pro nge: 1–1000n all slew rate. F.	e: Off. Maximirical signal or sector. Remotes intact. Remotes interest into the interest interes	um Voltage: 30 dry contact. R. On. Local: Off. 'or short, 2~30 e: 0~0.6V or sh imum sink cur i input voltagelay between uction manua ir turn-on and a the commun ning via the cor range: 0.0001-	DV, Maximum emote: 0~0.6i Maximum Vo DV or open. Us ort. Local: 2~ rent 100mA (2) ge = 2.5V, Ma 2 pulses 1m Lurn-off. iication ports mmunicatior ~999.9 V/mSe	Sink Current: V or short. Loc ltage: 30V, Maiser selectable 30V or open. Shunted by 27 eximum high s. or the front p. p orts or the c, or A/mSec.	10mA. cal: 2~30V or o kimum Sink Cu logic. TV zener) level input = anel. front panel. Programming	pen. rrent: 10mA. = 5V positive via the
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1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. 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 READB. RS232/485, Optional IEEE(*15 1. Vout programming accuracy (* 2. lout programming accuracy (* 2. Iout programming resolution 4. lout programming resolution 5. Vout readback accuracy	nals ACK (USB, LAN, 0)(*20) Interfaces) 16)	TT)	Power supply CV/CC Monite Enable/Disal analog progre Enable/Disal Enab	output monior. Open colle le analog proresiming contrible PS output! le PS output! le PS output! le PS output! le PS output! lin programm www level inpur: twe=10 us no /oltage: 0~0.4 (5000 hm imple contribution of 4 identical unit escan be contibuted by the power to the second power to the provided output over the to 100 steps: 20 d output volt! output curre ed output volt output curre ed output volt ed output curd und output uoid output unit doutput curre ed output volt ed output uoid outpu	itor. Open coll cctor. CC mode gramming co ol monitor sig by electrical si bby electrical si bby electrical si bable signals. I ut voltage = 1 ninimum. Tr, 'bV/2~30V or d pedance)=Fail units in Maste ts. Refer to ins mected in Dais a a proggramn Resistance ra a and Output f ne front panel. can be stored 30 age age ant+0.2% of ra ltage rrent	r: +/-0.5%. ector. Output r: On. CV mode htrol by electrial. Open colle gnal or dry co gnal or dry co daximum volt 0.8V, Minimu ff=1us Maxin ry contact. r/Slave mode. truction manu ry ckinin to syr ned value. Pro nge: 1-1000n all slew rate. F. in 4 memory c	e: Off. Maximirical signal or zetor. Remote: or natact. 0~0.6V intact. Remote: or natact. 0~0.6V intact. Remote: or natact. 0.0 intact. Remote: or natact. 0.0 intact. Remote zeto. Or natact. 0.0 intact. Remote zeto. Or natact. 0.0 intact. Or natact. 0.0 intact. 0.0 inta	um Voltage: 30 dry contact. R. On. Local: Off. for short, 2~30 e: 0~0.6V or sh imum sink cur l input voltaglay between uction manua ir turn-on and a the commun ning via the cor range: 0.0001- on by comman	DV, Maximum emote: 0~0.6' Maximum Vo Vor open. Us over. Local: 2~ rent 100mA (ge = 2.5V, Ma 2 pulses 1m I. turn-off. sication ports mmunicatior -999.9 V/mSe d via the com	Sink Current: V or short, Loc Itage: 30V, Maix er selectable 30V or open. Shunted by 27 ximum high s. or the front p. p oprts or the j. c. or A/mSec.	10mA. ral: 2~30V or o ximum Sink Cu logic. // Zener) level input = anel. front panel. Programming oorts or by the	pen. rrent: 10mA. = 5V positive via the front panel.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. 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 READB. RS232/485, Optional IEEE(*15 1. Vout programming accuracy (* 3. Vout programming resolution 5. Vout readback accuracy 6. lout readback acc	ACK (USB, LAN, 0)(*20) Interfaces) 16) 15)	TT)	Power supply CV/CC Monite Enable/Disala analog progre Enable/Disala Enab	routput monior. Open colle le analog procession de le sanalog procession de le sanalog procession de le Soutput le PS output lie PS output lie PS output lin programm ow level inpur: tw=10us n /oltage: 0~0.4 (5000hm implession de la dientical uni es can be con typut power to es resistance. le Output rise on ports or the to 100 steps of doutput volte output power de doutput curre ed output curre de output curre de output curre de output curre un doutput output output output output output curre	itor. Open coll cctor. CC mode gramming co ol monitor sig by electrical si bby elect	r: +/-0.5%. ector. Output r: On. CV modular of the control by electral of the control of t	e: Off. Maximirical signal or cettor. Remote: or control signal or cettor. Remote: or control signal or cettor. Remote: or control signal or cettor. Remote signal or cettor. Maximirical signal cettor. Refer to instruation. Refer to instruation of cettor. Refer to instruction of cettor.	um Voltage: 30 dry contact. R. On. Local: Off. for short, 2~30 e: 0~0.6V or sh imum sink cur l input voltage lay between uction manua ir turn-on and a the commun ning via the cor range: 0.0001- on by comman	DV, Maximum emote: 0~0.6' Maximum Vo Maximum Vo Jort. Local: 2~ rent 100 mA (ge = 2.5V, Ma 2 pulses 1m I. turn-off. iication ports mmunicatior -999.9 V/mSe d via the com	Sink Current: V or short. Loc tage: 30V, Maix er selectable 30V or open. Shunted by 27 iximum high s. or the front p. n ports or the 1 c. or A/mSec. imunication p	10mA. cal: 2~30V or o kimum Sink Cu logic. // Zener) level input = anel. front panel. Programming oorts or by the	pen. rrent: 10mA. = 5V positive via the front panel.

GENESYS[™] 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1.Rated output voltage(*1)		٧	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2) 3.Rated output power		A W	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
			3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
1.Input voltage/freq. 3 phase, 3 wire	e + Ground (*4)		3-Phase, 400\ 3-Phase, 480\	V models: 342 V models: 342	30 0~265Vac, 47~1 2~460Vac, 47~1 2~528Vac, 47~1 1~265Vac, 47~1	63Hz (Covers 63Hz (Covers	380/400/415\ 380/400/415/	40/460/480V	ac)	150	300	600
2. Maximum Input current at 100% load 3-	-Phase, 200V models: -Phase, 400V models: -Phase, 480V models: -Phase, 200V models:		12.5A @ 200V 6.5A @ 380Va 6.5A @ 380Va 21A @ 200Va	ac c c								
3.Power Factor (Typ) —					30Vac, rated ou							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50A	1								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volt	age							
2.Max. Load regulation (*8)			0.01% of rate									
3.Ripple and noise (p-p, 20MHz) (*9	9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV DDM/°C	8	10	10	12 Havein a 20 min	12	15	15	20	60	100
5.Temperature coefficient 6.Temperature stability					out voltage, fo hrs interval fo			•	na load & tan	nn		
7. Warm-up drift					utput voltage					πp.		
8.Remote sense compensation/wire	e (*10)	٧	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
110 Down-prog response time:	ull load (*11)	mS	50	50	80	80	80	100	100	100	100	200
N	o load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3000
11.Transient response time		mS	Time for outp	out voltage to cal sense. Les	recover withi s than 1mS, fo	n 0.5% of its r r models up to	ated output fo o and includir	or a load chang g 100V, 2mS	ge 10~90% of for models ab	t rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 Se			20.5 up ti	meladii	ا رواااع ۱۰۰ د				
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate			40] 00	60	100	130	300	000
2.Max. Load regulation (*13)			0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-Ph	nase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Ph	ase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C			rom rated outp				•			
6.Temperature stability			0.01% of rate	d lout over 8h	nrs. interval fo	llowing 30 mi	nutes warm-u	p. Constant lii	ne, load & ten	nperature.		
7. Warm-up drift					n +/-0.25% of 0.15% of rated					on.		
ANALOG PROGRAMMING AND MO	NITORING (ISOI ATER	FROM	THE CHITDHIT)									
1.Vout voltage programming				V or 0~10V, u	ser selectable.	. Accuracy and	d linearity: +/-	0.15% of rated	l Vout.			
2.lout voltage programming (*15)					ser selectable.							
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	racy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15)					scale, user sel		racy and linea	rity: +/-0.5% c	of rated lout.			
5.Output voltage monitor					able. Accuracy							
6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accuracy	y: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLATE	ED FROM THE OUTPU	-										
1. Power supply OK #1 signal											num Sink Curr	ent: 10mA.
CV/CC signal LOCAL/REMOTE Analog control										Sink Current:	al: 2~30V or o	non
4. LOCAL/REMOTE Analog control											ximum Sink Cu	
5. ENABLE/DISABLE signal										ser selectable		
6. INTERLOCK (ILC) control					by electrical si							
7. Programmed signals										(Shunted by 2		
8. TRIGGER IN / TRIGGER OUT signal:	s		Maximum lo	ow level inport	ut voltage = ! ninimum. Tr,	0.8V,Minimu Tf=1us Mavir	ım high level	input voltag	ge = 2.5V, Ma	aximum high ns.	level input =	= 5V positive
9. DAISY_IN/SO control signal					6V/2~30V or d		, min de	,	paises ill			
10. DAISY_OUT/PS_OK #2 signal					pedance)=Fail							
FUNCTIONS AND FEATURES												
1. Parallel operation			Possible. Up t	to 4 identical	units in Maste	r/Slave mode.	. Refer to instr	uction manua	ıl.			
2. Series operation					ts. Refer to ins							
3. Daisy chain					nected in Dai:							
4. Constant power control				<u> </u>						or the front p		
5. Output resistance control										n ports or the		
6. Slew rate control				ie Output rise	e and Output f	raii siew rate. F	rogramming	range: 0.0001	~999.9 V/mSe	ec. or A/mSec.	Programming	via tne
			communicati				cells Activation	n hy commar	nd via the con	nmunication	orts or by the	front nanel
7. Arbitrary waveforms	V (IICD I AN		Profiles of up	to 100 steps	can be stored	in 4 memory					orts or by the	
7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*	20) Interfaces)	 V	communicati Profiles of up	to 100 steps	can be stored		60	on by commar	nd via the con	nmunication p	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16)	20) Interfaces)	v	Profiles of up 10 0.05% of rate	to 100 steps 20 d output volt	30 age	in 4 memory	60					
7. Arbitrary waveforms PROGRAMMING AND READBACI RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)	20) Interfaces)	 V	rofiles of up 10 0.05% of rate 0.1% of actua	20 d output volt	30 age ent+0.2% of ra	in 4 memory	60					
7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16)	20) Interfaces)	v	Profiles of up 10 0.05% of rate	20 d output volt l output curre ed output vo	30 age ent+0.2% of ra	in 4 memory	60					
7. Arbitrary waveforms PROGRAMMING AND READBACI RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution	20) Interfaces)	v	10 0.05% of rate 0.1% of actua 0.002% of rat	20 d output volt l output curre ed output vo ed output cu	30 age ent+0.2% of ra ltage rrent	in 4 memory	60					
7. Arbitrary waveforms PROGRAMMING AND READBACI RS232/485, Optional IEEE(*19)(* 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution	20) Interfaces)	v	10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	20 d output volt l output vored output vo	30 age ent+0.2% of ra ltage rrent tage	in 4 memory	60					
7. Arbitrary waveforms PROGRAMMING AND READBAC(RS232/485, Optional IEEE(*19)(* 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	d output voltage)	 V	nommunicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	20 d output volt l output vored output vo	30 age ent+0.2% of ra ltage rrent tage	in 4 memory	60					

GENESYS[™] 5kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	60-85	80-65	100-50	150-34	200-25	300-17	600-8.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100 30	150	200	300	600
2.Rated output current (*2)		A	500 (*3)	250	170	125	85	65	50	34	25	17	8.5
3.Rated output power		W	5000	5000	5100	5000	5100	5200	5000	5100	5000	5100	5100
INPUT CHARACTERISTICS		٧	10	20	30	40	60	80	100	150	200	300	600
						47~63Hz (Co							
1.Input voltage/freq. 3 phase, 3 w			3-Phase, 48	0V models: 3		47~63Hz (Co 47~63Hz (Co			0/480Vac)				
2. Maximum Input current at	3-Phase, 200V models: 3-Phase, 400V models:		17.5A @ 200 9.2A @ 380\										
100% load	3-Phase, 480V models:		9.2A @ 380\										
3.Power Factor (Typ)	,				d output po	wer.							
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	91	91	91	91	91	91	91	91	92	92
5.Inrush current (*6)		A	Less than 50)A									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	200	300	600
1.Max. Line regulation (*7)			0.01% of rat	ed output v	oltage								
2.Max. Load regulation (*8)			0.01% of rat	ed output v	oltage +5mV								
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	80	90	120	200	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	15	15	20	60	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fi	rom rated ou	tput voltage	e, following 3	0 minutes w	arm-up.					'
6.Temperature stability			0.01% of rat	ed Vout ove	r 8hrs interv	al following 3	0 minutes w	arm-up. Con	stant line, lo	ad & temp.			
7. Warm-up drift			Less than 0.	05% of rated	doutput volt	age+2mV ov	er 30 minute	s following p	ower on.				
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	1000	1200	1900	2000	2500	3000	3000
11.Transient response time		mS	Time for ou 10~100%, L	tput voltage ocal sense. L	to recover v ess than 1m	vithin 0.5% o S, for models	f its rated ou up to and in	tput for a loa cluding 100\	nd change 10 /. 2mS, for m	- 1∼90% of rate odels above	ed output cu 100V.	rrent. Outpu	ut set-point:
12.Start up delay		Sec	Less than 5	Sec									
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	200	300	600
1.Max. Line regulation (*7)			0.05% of rat	ed output c	urrent.								
2.Max. Load regulation (*13)				ed output c									
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤100	≤70	≤45	≤45	≤45	≤15	≤8
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/%	C from rated	output curre	nt, following						
6.Temperature stability						al following 3				ad & temper	raturo		
7. Warm-up drift			10V~100V n	nodel: Less t	han +/-0.25%	6 of rated ou	put current	over 30 minu	ıtes followin	g power on.			
			150V~600V	Less than +	/-0.15% of ra	ted output c	urrent over 3	0 minutes fo	llowing pow	er on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROMT	HE OUTPUT)									
ANALOG PROGRAMMING AND N 1.Vout voltage programming	MONITORING (ISOLATED	FROM T			, user selecta	able. Accurac	y and lineari	ty: +/-0.15%	of rated Vou	t.			
			0~100%, 0~ 0~100%, 0~	5V or 0~10V 5V or 0~10V	, user selecta	ble. Accurac	y and lineari	ty: +/-0.4% o	f rated lout.				
1.Vout voltage programming			0~100%, 0~ 0~100%, 0~ 0~100%, 0~	5V or 0~10V 5V or 0~10V 5/10Kohm f	, user selecta ull scale, use	able. Accurac r selectable.	y and lineari Accuracy and	ty: +/-0.4% o d linearity: +,	f rated lout. /-0.5% of rate	ed Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)	 	0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	5V or 0~10V 5V or 0~10V 5/10Kohm f 5/10Kohm f	, user selecta ull scale, use ull scale, use	able. Accurac r selectable. r selectable.	y and lineari Accuracy and Accuracy and	ty: +/-0.4% o d linearity: +, d linearity: +,	f rated lout. /-0.5% of rate	ed Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 	0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~1	5V or 0~10V 5V or 0~10V 5/10Kohm fr 5/10Kohm fr 0V, user sele	, user selecta ull scale, use ull scale, use ectable. Accu	able. Accurac r selectable. r selectable. ıracy: +/-0.59	y and lineari Accuracy and Accuracy and 6 of rated Vo	ty: +/-0.4% o d linearity: +, d linearity: +, ut.	f rated lout. /-0.5% of rate	ed Vout.			
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 	0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~1	5V or 0~10V 5V or 0~10V 5/10Kohm fr 5/10Kohm fr 0V, user sele	, user selecta ull scale, use ull scale, use ectable. Accu	able. Accurac r selectable. r selectable. ıracy: +/-0.59	y and lineari Accuracy and Accuracy and 6 of rated Vo	ty: +/-0.4% o d linearity: +, d linearity: +, ut.	f rated lout. /-0.5% of rate	ed Vout.			
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GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	200	300	600
1. Foldback protection			Output shu User preset	t-down whe able. Reset b	n power supp y AC input re	oly changes r cycle in auto	mode from C' start mode, l	/ or Power L by Power Sw	imit to CC mo itch, by OUTI	ode or from O PUT button,	CC or Power l by rear pane	Limit to CV me I or by comm	ode. unication.
2.Over-voltage protection (OVP)			Output shu	t-down. Rese	et by AC inpu	t recycle in a	utostart mod	le, by OUTPl	JT button, by	rear panel o	r by commu	nication.	
Over -voltage programming rar	nge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5
4. Over-voltage programming ac				ed output vo									
5.Output under voltage limit (UV	L)							nalog progra	ımming. Pres	et by front p	anel or comi	munication po	ort.
6.Over temperature protection					Auto recover		rt mode.						
7. Output under voltage limit (UV	L)		Prevents ad	justment of	Vout below li	imit.							
8. Output under voltage protecti	on (UVP)				Vout below li by OUTPUT I					dition. Reset	t by AC input	recycle in au	tostart
FRONT PANEL													
1.Control functions				tions with 2									
					nanual adjus	t							
				VP manual a									
					VP, UVL,UVP,								
					ons - Selectio	n of LAN,IEEE	RS232,RS48	5,USB or Op	tional comm	unication int	erface.		
				OFF. Front P		· · · · · ·							
					ns - Selectio								
					ns - Selection					ogramming			
2.0:					ns - Selection				OV.			_	
2.Display					0.05% of rate								
2 F					0.2% of rated				IFICUDATION	CVCTEM CE	CHENCED		
3.Front Panel Buttons Indications					EVIEW, FINE,							_	
4. Front Panel Display Indications			Voltage, Cu (communic	rrent, Power ation), RS/US	CV, CC, CP, E B/LAN/IEEE o	xternal Volta communicati	ge, External on, Trigger, L	Current, Add oad/Store C	dress, LFP, Au ell.	tostart, Safet	tstart, Foldba	ack V/I, Remo	te
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 100	% load.									
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RH	(no conden	sation).								
4.Storage humidity		%	10~95% RH	(no conden	sation).								
5.Altitude (*17)						urrent derat	ing 2%/100m	or Ta derati	ng 1°C/100m	above 2000i	m Non oper	ating: 40000f1	(12000m)
MECHANICAL			Toperumig.		o,, output	- arrent derat	270710011	01 14 46144				atting: 1000011	(1200011)1
1.Cooling		T	Faread sir s	a alina bu int	ernal fans. Ai	ir flaur diract	on from Fro	nt nanal ta r	Saurar aummbu	****			
,		_				ir flow direct	ion: from Fro			rear			
2.Weight		kg	2.7kW/3.4k\					5kW - Less 1	than 7.5kg.				
3.Dimensions (WxHxD)		mm			1.5 (Withou 3.5 (Includir				fer to Outlir	e drawing)	١.		
4.Vibration			MIL-810G, n	nethod 514.6	, Procedure I	, test conditi	on Annex C -	2.1.3.1					
5.Shock			Less than 20	G, half sine,	11mSec. Unit	t is unpacked	l.						
SAFETY/EMC													
1.Applicable standards:	Safety		UL60950-1.	CSA22,2 No.	60950-1, IEC6	50950-1, EN6	0950-1.						
1.1. Interface classification			Vout ≤40V N	Models: Out	out, J1,J2,J3,J s: Output, J8	4,J5,J6,J7,J8 (sense) and ,J	9 (communi	cation option	ns) are SELV.	on ontions):	ara SELV	
					out - Output		-			-	o optioi13) t		
1.2 Withstand voltage			60V≤Vout≤	100V Mode		utput: 4242\	/DC 1min, Ir	put - SELV			t - SELV: 85	60VDC 1min,	
					,				: 4242VDC	Imin, Outpu	it - SELV: 15	600VDC 1mir	١,
1.3 Insulation resistance	1			t 25°C, 70%l		,						-	
2.Conducted emmision					ıl environme	nt. Annex H t	able H.1 . FCC	Part 15-A \	/CCI-A.	-	-		
3.Radiated emission					l environme					Δ			
	EMC/*10\							iii→, rcc Pai	CID-M, VCCI-	1			
4. EMC compliance	EMC(*18)		According t	O IEC/EN612	04-3 Industri	ai environme	ent						

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

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

 NOTES:

 * 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 * 2: Minimum current is guaranteed to maximum 0.2% of rated output current.
 * 3: Derate 5A/1°C above 40°C.

 * 4: For cases where conformance to various safety standards (UL, IEC, etc....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
 * 5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
 * 6: Not including EMI filter inrush current, less than 0.2mSec.
 * 7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V models: 342-460Vac, 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 JETIA RC-913TC (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.
 * 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
 * 12: From 90% to 10% of Rated Output Voltage.
 * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 * 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current 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 For 10V model only: Max. output current for using IEEE is 40°C.
 * 21: For 10V model only: Max. output curr

GENESYS[™] **GSP10kW SERIES SPECIFICATIONS**

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	60-170	80-130	100-100	150-68	200-50	300-34	600-17
1.Rated output voltage(*1)		٧	10	20	30	40	60	80	100	150	200	300	600
2.Rated output current (*2)		Α	1000 (*3)	500	340	250	170	130	100	68	50	34	17
3.Rated output power		kW	10	10	10.2	10	10.2	10.4	10	10.2	10	10.2	10.2
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	200	300	600
							/ers 200/230\						
1.Input voltage/freq. 3 phase, 3 v	wire + Ground (*4)						vers 380/400		\(\dol\dol\dol\dol\dol\dol\dol\dol\dol\dol				
	3-Phase, 200V models:		35A @ 200V		42~528Vac,4	1/~63HZ (CO	vers 380/400/	415/440/460)/48UVaC)				
2. Maximum Input current at	3-Phase, 400V models:		18.4A @ 380										
100% load	3-Phase, 480V models:		18.4A @ 380										
3.Power Factor (Typ)					d output pow	/er.							
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	91	91	91	91	91	91	91	91	92	92
5.Inrush current (*6)		Α	Less than 10)0A									
6.AC line phase imbalance		%	< 5%	< 5%									
CONSTANT VOLTAGE MODE		٧	10										600
1.Max. Line regulation (*7)		-		0.01% of rated output voltage									
2.Max. Load regulation (*8)			0.01% of rated output voltage +5mV										
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75 8	75	75	75 12	75	80	90	120	200	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9) 5.Temperature coefficient		mV		10	12		12 0 minutes wa	15	15	20	45	60	100
6.Temperature stability							0 minutes wa		tant line loa	d & temn			
7. Warm-up drift							er 30 minutes			a a temp.			
8.Remote sense compensation/\	wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	100	200
10.Down-prog.response time.	No load (*12)	mS	300	600	800	900	1000	1200	1900	2000	2500	3000	3000
11.Transient response time		mS	Time for ou	put voltage	to recover w	ithin 0.5% of	its rated out up to and inc	put for a load	d change 10~	90% of rated	d output curi	ent. Output s	et-point:
12.Start up delay		Sec	Less than 7		ess triair riris	, ioi illoueis	up to and me	luding 100v	. 21115, 101 1110	dels above 1	00 V.		
1 May Line regulation (*7)			0.0E0/.of rat	ad autaut cu	uront								
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)				ed output cu ed output cu									
3.Ripple r.m.s. @ 10% rated volta	ae. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	150	100	70	45	45	15	10
4.Ripple r.m.s. @ 100% rated voltag		mA	1200	700	300	150	75	50	35	23	23	7.5	6
-		PPM/°C	10V~100V	100PPM/°C	from rated o	output curre	nt, following	30 minutes v	warm-up.				,
5.Temperature coefficient		PPIW/°C	150V~600V	70PPM/°C	from rated o	utput curren	t, following 3	0 minutes w	arm-up.				
6.Temperature stability							0 minutes wa				ture.		
7. Warm-up drift							put current o						
					'-0.15% of rat	ed output cu	irrent over 30	minutes fol	lowing powe	r on.	-		
ANALOG PROGRAMMING AND	MONITORING (ISOLATED												
1.Vout voltage programming		_					y and linearit	•					
2.lout voltage programming (*1 3.Vout resistor programming	5)						y and linearit Accuracy and			l Vout			
4.lout resistor programming (*1:	5)						Accuracy and						
5.Output voltage monitor	<u> </u>						. Of rated Vo		0.5 /0 01 14100	i lout.			
6.Output current monitor (*15)							. Of rated lou						
SIGNALS AND CONTROLS (ISOL	ATED EROM THE OUTDU												
1. Power supply OK #1 signal	ATED FROM THE OUTPO	r\											
2. CV/CC signal		_	Power supp	ly output mo	onitor Open	collector Ou	itnut On: On	Output Off:	Off Maximur	n Voltage: 30	W Maximum	Sink Current	t- 10m∆
i z. CV/CC Siulidi		Γ) 					tput On: On.						t: 10mA.
3. LOCAL/REMOTE Analog contro	ol		CV/CC Moni	tor. Open co	llector. CC m	ode: On. CV ı	tput On: On. mode: Off. Ma electrical sign	aximum Volt	age: 30V, Ma	ximum Sink	Current: 10m	ıA.	
			CV/CC Moni Enable/Disa	tor. Open co ble analog p	llector. CC m programming	ode: On. CV i control by e	mode: Off. M	aximum Volt al or dry con	age: 30V, Ma tact. Remote	ximum Sink	Current: 10m hort. Local: 2	ıA. 2~30V or ope	n.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 	CV/CC Moni Enable/Disa analog prog Enable/Disa	tor. Open co ble analog p ramming co ble PS outpu	llector. CC morogramming ntrol monitor ut by electric	ode: On. CV i control by e signal. Oper al signal or d	mode: Off. Ma electrical sign of collector. Re ry contact. 0	aximum Volt al or dry con mote: On. Lo ~0.6V or sho	age: 30V, Ma stact. Remote ocal: Off. Maxi rt, 2~30V or o	ximum Sink : 0~0.6V or s mum Voltag pen. User se	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi	ıA. 2∼30V or ope num Sink Curı	n.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		 	CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa	tor. Open co ble analog p ramming co ble PS outpu ble PS outpu	llector. CC morogramming ntrol monitor ut by electrica ut by electrica	ode: On. CV i control by e signal. Oper al signal or d al signal or d	mode: Off. Ma electrical sign of collector. Re ry contact. 0 ry contact. Re	aximum Volt al or dry con mote: On. Lc ~0.6V or sho emote: 0~0.6	age: 30V, Ma stact. Remote ocal: Off. Maxi rt, 2~30V or o 5V or short. Lo	ximum Sink :: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open.	iA. 2~30V or oper num Sink Curr ic.	n.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 	CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d	tor. Open co able analog p gramming co able PS outpu able PS outpu rain program	llector. CC m programming ntrol monitor at by electrica at by electrica nmable signa	ode: On. CV i control by e signal. Oper al signal or d al signal or d ls. Maximum	mode: Off. Ma electrical sign ocollector. Re ry contact. O ry contact. Re o voltage 25V	aximum Volt al or dry con mote: On. Lo ~0.6V or sho emote: 0~0.6 , Maximum s	rage: 30V, Ma: itact. Remote ocal: Off. Maxi rt, 2~30V or o 6V or short. Lo ink current 1	ximum Sink (: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V o 00mA (Shun	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		 	CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum	tor. Open co able analog p gramming co able PS outpu able PS outpu rain program low level in	llector. CC m programming ntrol monitor at by electrica nmable signa put voltage	ode: On. CV i control by e signal. Oper al signal or d al signal or d ls. Maximum = = 0.8V, Min	mode: Off. Ma electrical sign of collector. Re ry contact. 0 ry contact. Re	aximum Volt al or dry con mote: On. Lo ~0.6V or sho emote: 0~0.6 , Maximum s level input	rage: 30V, Mazitact. Remote ocal: Off. Maxi rt, 2~30V or of over short. Lo ink current 1 voltage = 2.	ximum Sink (:: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c 00mA (Shun .5V, Maximi	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		 	CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum edge trigg	tor. Open co ble analog p rramming co ble PS outpu ble PS outpu rain program low level in er: tw=10us	llector. CC m programming ntrol monitor at by electrica nmable signa put voltage	ode: On. CV of control by existing all operal signal or dall signal or dall signal or dalls. Maximum existing all of the control of the contr	mode: Off. Management of the collector. Reference of the c	aximum Volt al or dry con mote: On. Lo ~0.6V or sho emote: 0~0.6 , Maximum s level input	rage: 30V, Mazitact. Remote ocal: Off. Maxi rt, 2~30V or of over short. Lo ink current 1 voltage = 2.	ximum Sink (:: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c 00mA (Shun .5V, Maximi	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
3. LOCAL/REMOTE Analog contr 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig		 	CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum edge trigg By electrica	tor. Open co lible analog p tramming cou lible PS outpu lible PS outpu rain program low level in er: tw=10us I Voltage: 0~	llector. CC morogramming on trol monitor at by electrical to by electrical mable signal put voltages minimum.	ode: On. CV is control by expension of a signal or deal signal or deal signal or deals. Maximum at a control of the control of	mode: Off. Management of the collector. Reference of the c	aximum Volt al or dry con mote: On. Lo ~0.6V or sho emote: 0~0.6 , Maximum s level input	rage: 30V, Mazitact. Remote ocal: Off. Maxi rt, 2~30V or of over short. Lo ink current 1 voltage = 2.	ximum Sink (:: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c 00mA (Shun .5V, Maximi	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 9. DAISY_IN/SO control signal			CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum edge trigg By electrica	tor. Open co lible analog p tramming cou lible PS outpu lible PS outpu rain program low level in er: tw=10us I Voltage: 0~	llector. CC m programming introl monitor at by electrica at by electrica mable signa put voltage s minimum. 0.6V/2~30V c	ode: On. CV is control by expension of a signal or deal signal or deal signal or deals. Maximum at a control of the control of	mode: Off. Management of the collector. Reference of the c	aximum Volt al or dry con mote: On. Lo ~0.6V or sho emote: 0~0.6 , Maximum s level input	rage: 30V, Mazitact. Remote ocal: Off. Maxi rt, 2~30V or of over short. Lo ink current 1 voltage = 2.	ximum Sink (:: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c 00mA (Shun .5V, Maximi	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
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3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES			CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum edge trigg By electrica 4~5V=OK, 0	tor. Open co able analog p gramming con able PS output ble PS output rain program low level in er: tw=10us I Voltage: 0~ IV (500ohm in	llector. CC m orogramming ntrol monitor at by electrica the by electrica mable signa put voltage s minimum. 0.6V/2~30V c mpedance)=	ode: On. CV is control by expension of the control by expe	mode: Off. M. electrical sign n collector. Re ry contact. Or ry contact. Re n voltage 25V ilmum high laximum, M t.	aximum Volt al or dry con mote: On. Lc ~0.6V or sho emote: 0~0.6 , Maximum s level input in delay be	rage: 30V, Mazitact. Remote ocal: Off. Maxi rt, 2~30V or of over short. Lo ink current 1 voltage = 2.	ximum Sink (:: 0~0.6V or s mum Voltag pen. User se ocal: 2~30V c 00mA (Shun .5V, Maximi	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V zo	A. 2~30V or open num Sink Curr ic. ener)	n. rent: 10mA.
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 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			CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Two open d Maximum dege trigg By electrica 4~5V=OK, C Two identic Consult witl Power supp	tor. Open co bble analog p rramming co bble PS outpuble PS outpuble PS outpuble PS low level in in er: tw=10us I Voltage: 0~ IV (5000hm in al GSP units. h Factory lies can be co	llector. CC m orogramming introl monitor ut by electric. ut by electric. ut by electric. inmable signa put voltage is minimum. 0.6V/2~30V c impedance)=	ode: On. CV is control by essignal. Operal signal or dal signal or dal signal or distribution of the control of	mode: Off. M. electrical sign n collector. Re rry contact. O rry contact. Re n voltage 25V simum high laximum, M tt. onsult with Fi o synchroniz	aximum Voltal or dry cor mote: On. Lc •0.6V or sho emote: O~0.0, Maximum s level input in delay be	age: 30V, Ma: stact. Remote socal: Off. Maxi rt, 2~30V or o 5V or short. Le ink current 1 voltage = 2 tween 2 pul	ximum Sink vi : 0~0.6V or s mum Voltag pen. User se ocal: 2~30V o 00mA (Shun .5V, Maxims ses 1ms.	Current: 10m hort. Local: 2 e: 30V, Maxin lectable logi or open. ted by 27V z um high lev	nA. 2~30V or open num Sink Curri ic. ener) rel input = 5	n. rent: 10mA.
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3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN/TRIGGER OUT sig 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal 110. AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control 7. Arbitrary waveforms 1. Arbitrary waveforms	nals CK (USB, LAN, (*20) Interfaces) 16)		CV/CC Moni Enable/Disa analog prog Enable/Disa Enable/Disa Enable/Disa Enable/Disa Enable/Disa Two open d Maximum edge trigg By electrica 4~5V=OK, 0 Two identic Consult with Power supp Limits the o Emulates se Programma communica Profiles of u 10 0.05% of rate 0.002% of rate 0.005% of rate 0.05% of rate	tor. Open co tor.	llector. CC m programming introl monitor ut by electric. at by electric at by electric. at by electric at by electric at both electric at b	ode: On. CV is control by exignal. Oper al signal. Oper al signal or distribution of all signal or distribution or d	mode: Off. M. electrical sign collector. Re ry contact. 0- ry contact. 10- ry	aximum Volt al or dry con mote: On. Le -0.6V or sho emote: O-0.6, Maximum s level input in delay be actory. e their turn- ng via the cc ramming via ming range: ivation by cc 80	age: 30V, Ma: tact. Remote cal: Off. Maxi rt, 2–30V or o SV or short. Lt. ink current 1 voltage = 2 tween 2 pul on and turn- communication at the commun 0.0001~999.5 ommand via t	ximum Sink v: 0~0.6V or s mum Voltag ppen. User se socal: 2~30V of S or s or socal: 2~30V of	Current: 10m hort. Local: 2 e: 30V, Maxim lectable logion or open. ted by 27V zum high lev lectable so or the front panels to or the front A/mSec. Pro-	A. 2~30V or oper num Sink Curri cic. ener) el input = 5 I. t panel. gramming via s or by the fro	n. ent: 10mA. V positive a the nt panel. 600
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 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 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBAC RS232/485, Optional IEEE (*19) 1. Vout programming accuracy (*2. Lout programming accuracy (*3. Vout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	nals EK (USB, LAN, (*20) Interfaces) 16) 15)		CV/CC Moni Enable/Disa analog prog Enable/Disa analog prog Enable/Disa Enable/Disa Enable/Disa Two open d Maximum edge trigg By electrica 4~5V=OK, C Two identic Consult with Power supp Limits the o Emulates se Programma communica Profiles of u 0.05% of rate 0.02% of fra 0.002% of fra 0.002% of fra 0.002% of fra 0.002% of fra	tor. Open co tor.	llector. CC m programming introl monitor ut by electric. ut by electric. ut by electric. ut by electric. unable signa put voltage s minimum. 0.6V/2~30V empedance)= For more por connected in little to a proggrace. Resistance is eand Outp the front palos os can be stored in little and output the front palos os can be stored in little and output the front palos os can be stored in little and output the front palos os can be stored in little and output the front palos os can be stored in little and output the front palos os can be stored in little and output the front palos or can be stored in little and output the front palos or can be stored in little and output the front palos of the fron	ode: On. CV is control by e signal. Oper al al signal or d al signal or d als. Maximum: = 0.8V,Min Tr,Tf=1us M or dry contact Fail wer please co Daisy chain t immed value e range: 1-1 ut fall slew ranel.	mode: Off. M. electrical signer of collector. Re ry contact. 0- ry contact. 0- ry contact. 0- ry contact. Re ry coltage 25V imum high laximum, M. t. onsult with Fi. o synchroniz. e. Programmi 000m(). Progate. Programmi	aximum Volt al or dry con mote: On. Lc -0.6V or sho emote: O-0.6, , Maximum s level input in delay be actory. e their turn ng via the co ramming via ming range: ivation by co	age: 30V, Ma: tact. Remote ocal: Off. Maxi rt, 2-30V or o SV or short. Lt. ink current 11 voltage = 2 tween 2 pul	ximum Sink v: 0~0.6V or sr mum Voltag ppen. User se scal: 2~30V of Sr sr with Voltag ppen. User se scal: 2~30V of Sr sr with Voltag ppen. User se scal: 2~30V of Sr sr with Voltag pen. User se scaling se scalin	Current: 10m hort. Local: 2 e: 30V, Maxim lectable logi or open. ted by 27V z um high lev e front panel ts or the fron A/mSec. Pro- ication ports	A. 2~30V or oper num Sink Curri cic. ener) el input = 5 I. It panel. gramming via s or by the fro	n. ent: 10mA. V positive

GENESYS[™] **GSP15kW SERIES SPECIFICATIONS**

OUTPUT RATING		GSP	10-1500	20-750	30-510	40-375	60-255	80-195	100-150	150-102	200-75	300-51	600-25.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	200	300	600
2.Rated output current (*2)		Α	1500 (*3)	750	510	375	255	195	150	102	75	51	25.5
3.Rated output power		kW	15	15	15.3	15	15.3	15.6	15	15.3	15	15.3	15.3
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	200	300	600
			3-Phase, 20	0V models: 1	70~265Vac, 4	47~63Hz (Cov	ers 200/230	Vac)					
1.Input voltage/freq. 3 phase, 3 wi	re + Ground (*4)					47~63Hz (Co							
	0.01				42~528Vac,	47~63Hz (Cov	ers 380/400	/415/440/460	/480Vac)				
	3-Phase, 200V models:		52.5A @ 200		-								
100% load	3-Phase, 400V models: 3-Phase, 480V models:		27.6A @ 380 27.6A @ 380										
3.Power Factor (Typ)	5 i nasc, 400 v models.			380Vac, rated	d output pov	ver.				-			
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	90	91	91	91	91	91	91	91	92	92
5.Inrush current (*6)		Α	Less than 15	60A									
6.AC line phase imbalance		%	< 5%										
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	200	300	600
1.Max. Line regulation (*7)			0.01% of rat	ed output vo	ltage								
2.Max. Load regulation (*8)			0.01% of rat	ed output vo	ltage +5mV								
3.Ripple and noise (p-p, 20MHz) (*	*9)	mV	75	75	75	75	75	80	90	120	200	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	15	15	20	45	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fr	om rated ou	tput voltage	, following 30) minutes wa	arm-up.			,	,	
6.Temperature stability			0.01% of rat	ed Vout over	8hrs interva	I following 3	0 minutes wa	arm-up. Cons	tant line, loa	ad & temp.			
7. Warm-up drift			Less than 0.	05% of rated	output volta	age+2mV ove	r 30 minutes	following p	ower on.				
8.Remote sense compensation/wi	re (*10)	٧	2	2	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	100
10 Down progressess tim-	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	1000	1200	1900	2000	2500	3000	3000
11.Transient response time		mS				ithin 0.5% of						ent. Output	set-point:
· ·			_		ess than 1mS	, for models	up to and inc	cluding 100V.	2mS, for mo	dels above 1	00V.		
12Start up delay		Sec	Less than 7 S	Sec									
13.Hold-up time													
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	200	300	600
1.Max. Line regulation (*7)			0.05% of rat	ed output cu	irrent.								
2.Max. Load regulation (*13)			0.08% of rat	ed output cu	ırrent.								
3.Ripple r.m.s. @ 10% rated voltage	e B.W 5Hz~1MHz. (*14)	mA	2000	1200	600	300	180	100	70	45	45	15	10
4.Ripple r.m.s. @ 100% rated voltage.	B.W 5Hz~1MHz. (TA 25°C)	mA	1200	700	300	150	90	60	35	23	23	7.5	6
5.Temperature coefficient		PPM/°C	10V~100V			output currei							
6.Temperature stability						l following 30				nd & tempera	ture.		
7. Warm-up drift						of rated out							
ANALOG PROGRAMMING AND M	IONITODING (ICOLATED	FROMT							3				
ANALOG PROGRAMMING AND M	UNITUKING (ISULATED					h.l. A		/ 0.150/ -	£				
1.Vout voltage programming	`					ble. Accuracy				•			
2.lout voltage programming (*15) 3.Vout resistor programming						ble. Accuracy selectable. <i>P</i>				d Vaut			
						selectable. F							
4.lout resistor programming (*15) 5.Output voltage monitor (*23)						racy: +/-0.5%			0.5% OF Tale	u lout.			
6.Output current monitor (*15) (*2	33)					racy: +/-0.5%				-			
•			0-34 01 0-1	ov, user sere	Ctable. Accu	1acy. +/-0.5/c	. or rated loc	,					
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT												
1. Power supply OK signal						collector. Ou							t: 10mA.
2. CV/CC signal						iode: On. CV i							
3. LOCAL/REMOTE Analog control						g control by e							
4. LOCAL/REMOTE Analog signal						r signal. Oper							rent: 10mA.
5. ENABLE/DISABLE Signal						al signal or d				<u> </u>		с.	
6. INTERLOCK (ILC) control						al signal or d							
7. Programmed signals						als. Maximum							1
8. TRIGGER IN / TRIGGER OUT signa	als		Maximum lo	ow level inpu	it voltage = (=1us Maximi	0.8V,Minimun um, Min delay	n high level i 7 between ?	nput voltage	= 2.5V, Max	imum high le	vel input = 5	V positive ed	dge trigger:
			.vv – rous iril		rus widAIIIII	, wiiii ueid)	, SCLWCEII Z	puises 11115.					
FUNCTIONS AND FEATURES													
1. Parallel operation					For more po	wer please co	onsult with F	actory.					
2. Series operation			Consult with										
3. Daisy chain						Daisy chain t							
4. Constant power control						ammed value							
5. Output resistance control						e range: 1~10							
6. Slew rate control			Programma	ble Output r tion ports or	ise and Outp	out fall slew ra	ite. Program	ming range:	0.0001~999.	9 V/mSec. or a	A/mSec. Prog	gramming vi	a the
7. Arbitrary waveforms						red in 4 mem	ory cells. Act	tivation by co	mmand via	the commun	ication ports	or by the fro	ont panel.
PROGRAMMING AND READBACK	(USB, LAN,	V	10	20	30	40	60	80	100	150	200	300	600
DE222/40E Ontional IEEE (*10)/*	(20) Interfaces)					70	00	00	100	150	200	300	000
	á)			ed output vo									
1. Vout programming accuracy (*16			0.3% of rate	d output cur									
1.Vout programming accuracy (*16 2.lout programming accuracy (*19					14								
1. Vout programming accuracy (*16 2. lout programming accuracy (*15 3. Vout programming resolution			0.002% of ra										
2.lout programming accuracy (*15 3.Vout programming resolution 4.lout programming resolution			0.002% of ra	ated output o	urrent								
1. Yout programming accuracy (*16 2. lout programming accuracy (*15 3. Yout programming resolution 4. lout programming resolution 5. Yout readback accuracy 1. Yout programming resolution 5. Yout readback accuracy			0.002% of ra 0.05% of ra	ated output o	current oltage								
1.Vout programming accuracy (*16 2.lout programming accuracy (*15 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15)	5)		0.002% of ra 0.05% of ra 0.2% of rate	ated output of ted output vo	oltage rent								
1.Vout programming accuracy (*16 2.lout programming accuracy (*15 3.Vout programming resolution 4.lout programming resolution	5) ed output voltage)		0.002% of ra 0.05% of ra	ated output o	current oltage	0.003% 0.004%	0.002% 0.005%	0.002% 0.006%	0.011% 0.008%	0.007% 0.012%	0.005% 0.002%	0.004% 0.003%	0.002%

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	200	300	600
1.Foldback protection			Output shu User preset	t-down wher able. Reset by	n power supp y AC input re	oly changes r ecycle in auto	node from C start mode,	V or Power L by Power Sw	imit to CC mo	ode or from (PUT button,	CC or Power I by rear pane	imit to CV m	ode. unication.
2.Over-voltage protection (OVF				t-down. Rese									
3.Over -voltage programming i		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5
4. Over-voltage programming				ed output vo									
5.Output under voltage limit (L				om adjusting				nalog progra	mming. Pres	et by front p	anel or comr	nunication p	ort.
6.Over temperature protection				the output.			rt mode.						
7. Output under voltage limit (l	JVL)		Prevents ac	ljustment of \	out below l	imit.							
8. Output under voltage protec	ction (UVP)		Prevents ac mode, by P	ljustment of \ ower Switch,	out below li by OUTPUT	imit. P.S outp button, by re	ut turns Off ar panel or b	during unde by communic	r voltage cor ation.	ndition. Rese	t by AC input	recycle in au	itostart
FRONT PANEL													
1.Control functions		T	Multiple or	tions with 2 E	ncoders								
				Power Limit m		t							
				VP manual ad									
				Functions - O		Foldback, O	CL. ENA. ILC						
				ation Functio				35.USB or Op	tional comm	unication int	terface.		
	-			/OFF. Front Pa			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
				ation Functio		n of Baud Rat	te, Address. I	P and comm	unication lar	nguage.			
				trol Function							1		
				nitor Function						J	,		
2.Display				ts, accuracy:									
F 2				s, accuracy: 0									
3.Front Panel Buttons Indicatio	ns			N, ALARM, PR					IFIGURATION	N. SYSTEM. SI	EOUENCER.		
4. Front Panel Display Indicatio			Voltage, Cu	rrent, Power, ation), RS/US	CV, CC, CP, E	xternal Volta	ge, External	Current, Add	dress, LFP, Au			ick V/I, Remo	te
ENVIRONMENTAL CONDITION	15												
ENVIRONMENTAL CONDITION	15		0 5005 100	20/1 1									
1.Operating temperature			0~50°C, 100	J% Ioad.								-	
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RF	l (no condens	ation).								
4.Storage humidity		%	10~95% RH	(no condens	ation).								
5.Altitude (*17)			Operating:	10000ft (3000	m), output o	current derat	ing 2%/100m	n or Ta derati	ng 1°C/100m	above 2000	m. Non opera	ting: 40000f	t (12000m).
MECHANICAL													
1.Cooling			Forced air o	ooling by int	ernal fans. A	ir flow direct	ion: from Fro	ont panel to r	ower supply	/ rear			
2.Weight	GSP 10kW	kg	Less than 1										
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H: 8	38, D: 441.5 (V 38, D: 640 (Inc				strain relief)	(Refer to Outl	line drawing).			
2.Weight	GSP 15kW	kg	Less than 2	-	3 - 2 - 3 - 5		,			9/			
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H:	132.5, D: 441. 132.5, D: 640					elief) (Refer t	o Outline dra	awing).		
4.Vibration			MIL-810G, r	nethod 514.6	, Procedure I	, test conditi	on Annex C -	- 2.1.3.1			_		
5.Shock				0G, half sine,	•	-							
SAFETY/EMC	_												
1.Applicable standards:	Safety		III 60050 1	CSA22.2 No.6	60050.1 IEC	60050-1 ENG	0050-1						
1.1. Interface classification	Salety		Vout ≤40V	Models: Outp 600V Model:	ut, J1,J2,J3,J	4,J5,J6,J7,J8 (sense) and ,				ion ontions)	ro CELV	
				Models: Inp		· · · · · · · · · · · · · · · · · · ·						ii C JLLV	
1.2 Withstand voltage			60V≤Vout≤	100V Model round: 1500'	ls: Input - O	utput: 4242\	/DC 1min, li	nput - SELV			ıt - SELV: 85	0VDC 1min	,
-				600V Model round: 2500					: 4242VDC	1min, Outpu	ıt - SELV: 15	00VDC 1mi	n,
1.3 Insulation resistance			-	60 Mohm at 2				1	90 Mohm at 1	25°C, 70%RH	l.		
2.Conducted emmision				4-3 Industria			ahle H 1 FC			,	-		
3.Radiated emission				14-3 Industria 14-3 Industria						Λ			
			LILL/EINDIZU	m-5 muustiia					LLD-M. VUUI-	^			
4. EMC compliance	EMC(*18)			to IEC/EN6120			-	a 11-1, 1 cc 1 di					

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

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

 *NOTES:

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

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

 *3: Derate 15A/1°C above 40°C.

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

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

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

 *7: 3-Phase 200V models: 170-265Vac, 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 Remote Sense.

 *9: For 10V-150V models: Measured with JEITA RC-913IC (1:1) probe. For 300-60V 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, onstant 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.

 *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.

 *19:9-Max. ambient temperature for using IEEE is 40°C.

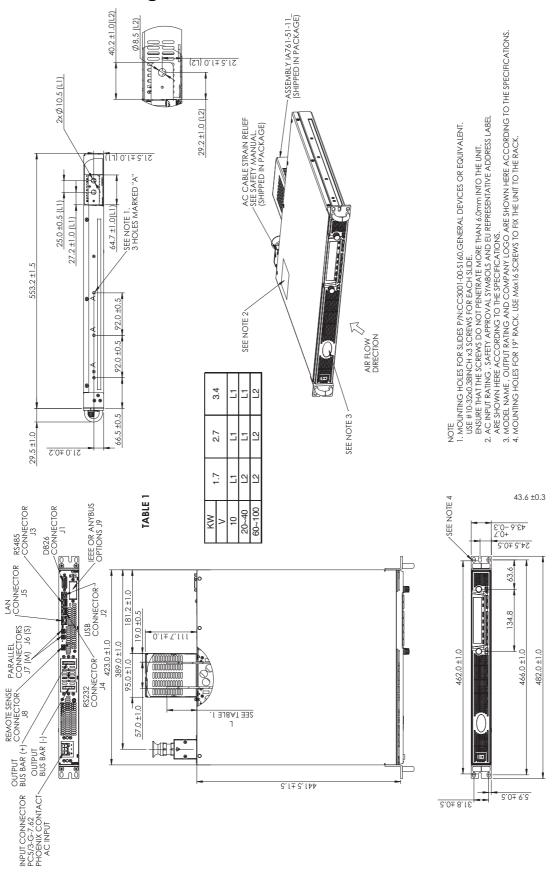
 *20: GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 900A up to 30°C.

 *21: For 10V model only: For 3-Phase 200V efficiency is 88.5%

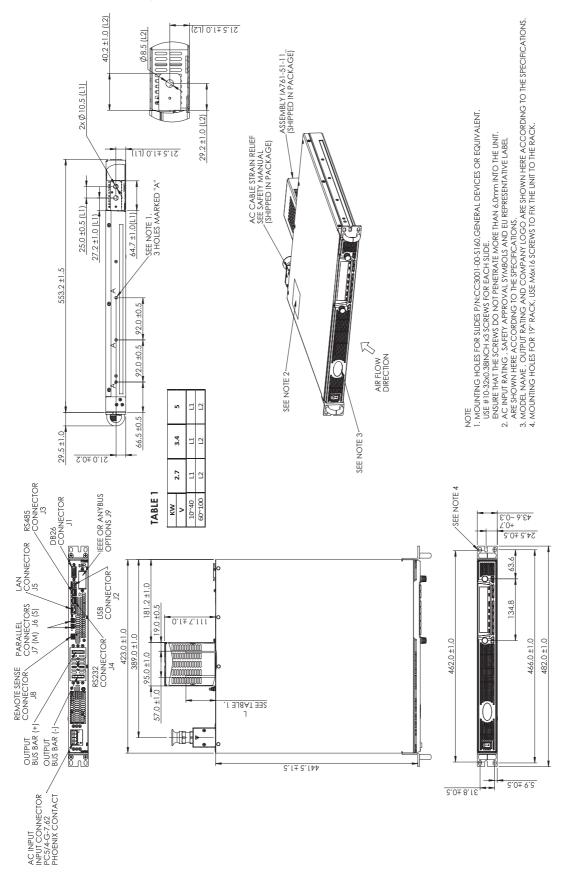
 *22: Typ. at Ta=25°C, rated output power.

 *23: For steady state only.

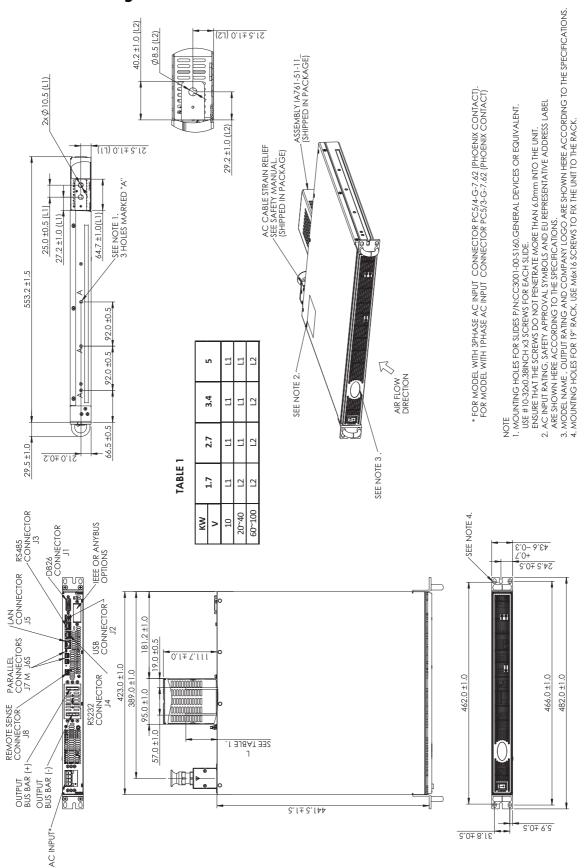
Outline Drawing GENESYS™ G1.7kW/2.7kW/3.4kW - 1-Phase



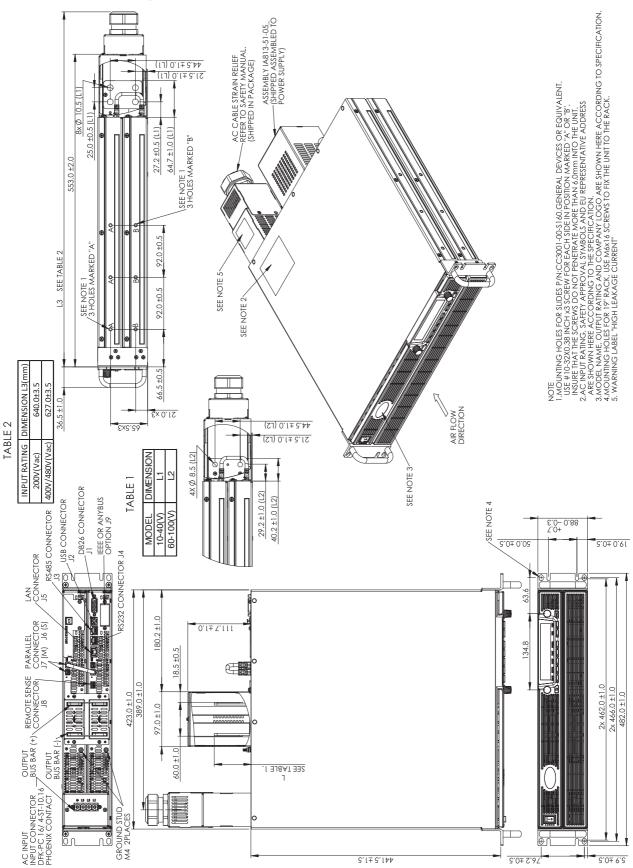
Outline Drawing GENESYS[™] G2.7kW/G3.4kW/G5kW - 3-Phase



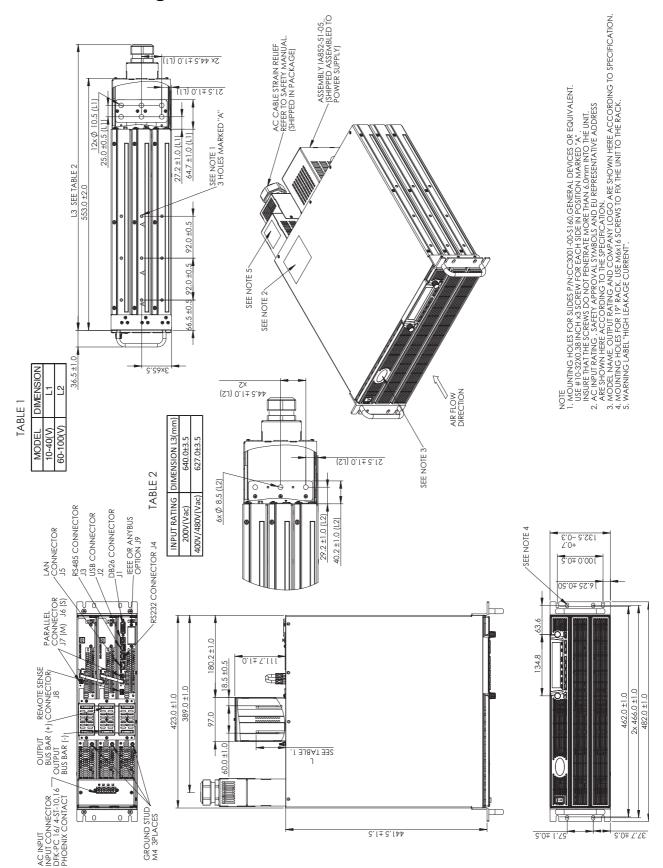
Outline Drawing GENESYS™ GB1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



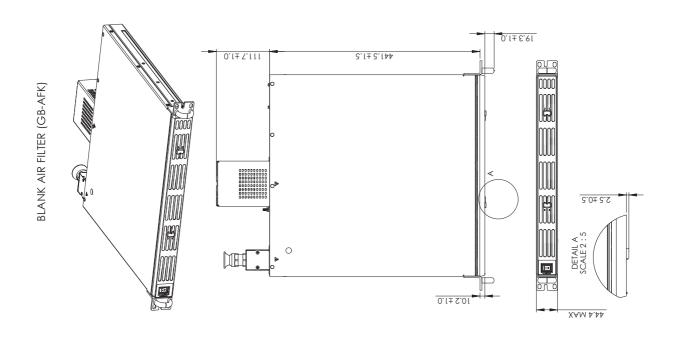
Outline Drawing GENESYS™ GSP10kW

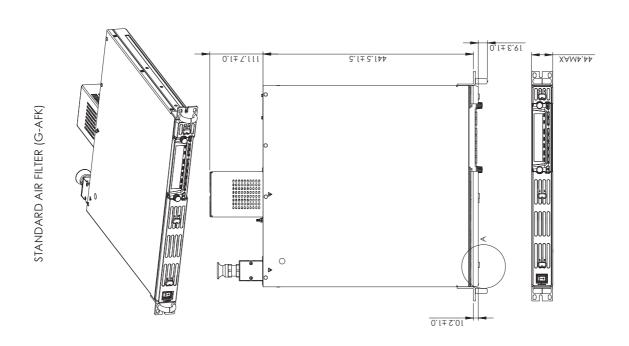


Outline Drawing GENESYS™ GSP15kW



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



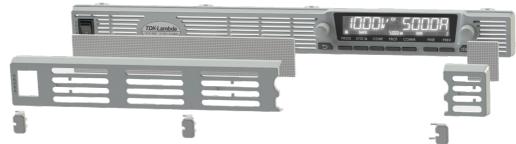


Front Panel Air Filter Assembly

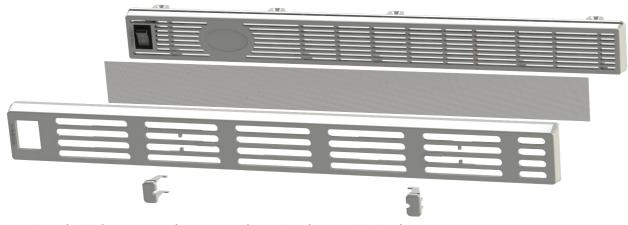
Front panel dust cover is available for dusty air environment applications

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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