

NEW



GENESYSTM G Series

Programmable DC Power Supplies
Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height
GSP 10kW/15kW in 2U/3U Height

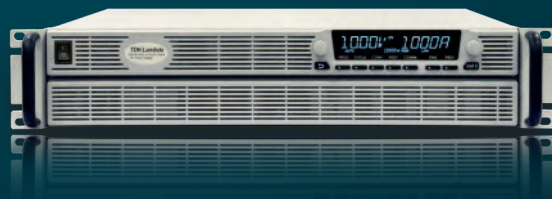
! Advanced Features Built-In !

- Arbitrary Waveform Generator with Auto-Trigger Capability
 - Programmable Slew Rate Control (Vout/Iout)
- Constant Power Limit Operation • Internal Resistance Programming
 - Built-In Remote Isolated Analog Interface
- Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 - Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 - Blank Front Panel Option Available



TDK-Lambda

Trusted • Innovative • Reliable



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

Features include:

- Leading DC Programmable power density (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs:
G1kW/1.7kW: 1Ø (85~265VAC)
G2.7kW / G3.4kW: 1Ø (170~265VAC), 3Ø (208VAC, 400VAC)
G5kW / G7.5kW / GSP10kW / 15kW: 3Ø (208VAC, 400VAC & 480VAC), Wide-range 3Ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1500A
- Built-in LAN (10/100/1000), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing - software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed controlled by ambient temperature and load
- Certified LabWindows™/CVI, LabVIEW™, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

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 twelve (12) 7.5kW units. Each unit is 1U with zero space between them (zero stack).

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

G1kW-7.5kW Front Panel Description



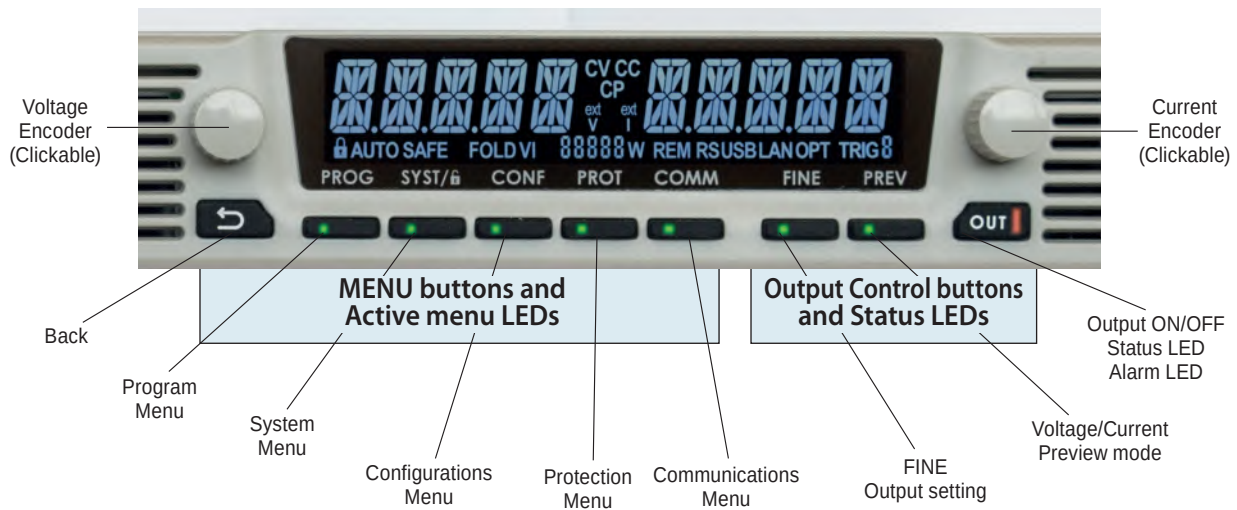
1. Input Power ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable Detent Encoders for settings and Menu navigation.
4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
5. Function/Status LEDs: Active modes and function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

G1kW-5kW Rear Panel Description

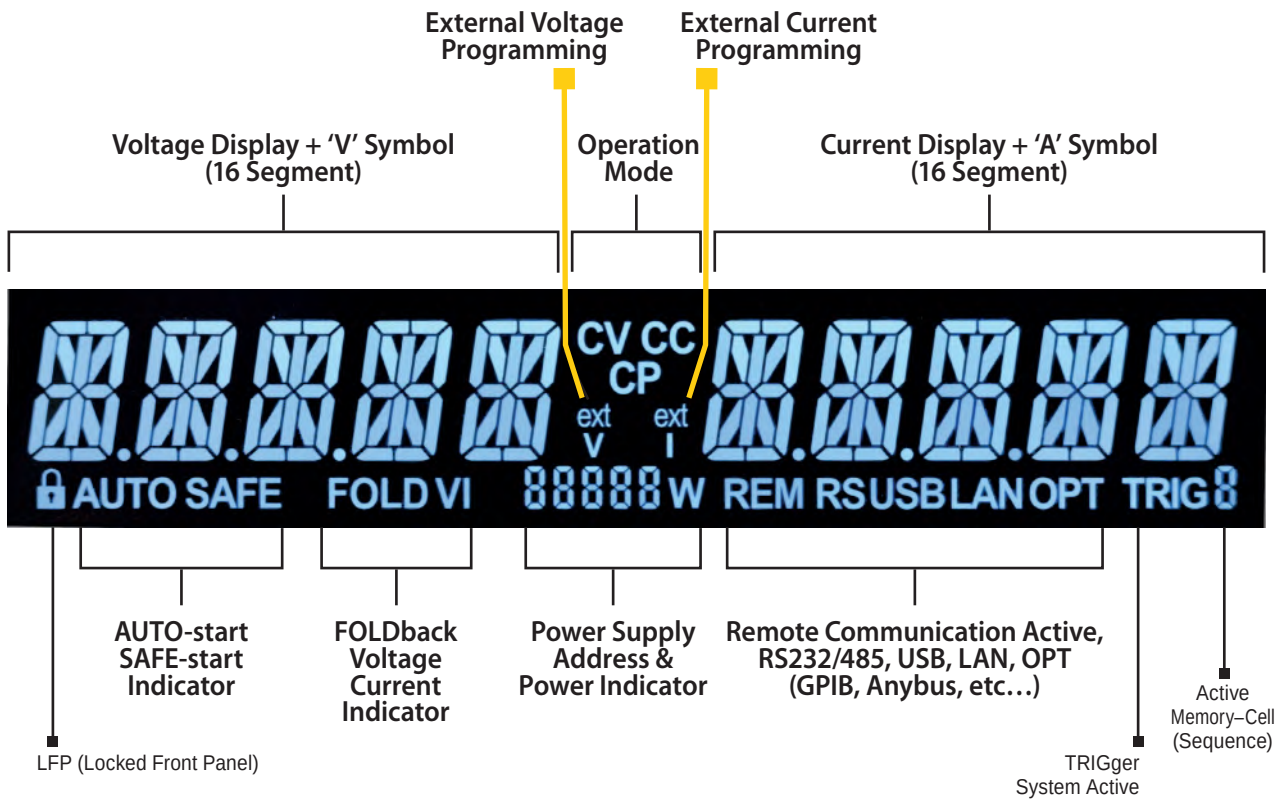


1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
2. USB Interface connector (Type B).
3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
4. LAN (10/100/1000) Interface connector (RJ-45 type with LAN status indicators).
5. Auto paralleling 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.
G1kW AC Input Connector: IEC320 C16.
9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
10. Exhaust air assures reliable operation when units are zero stacked.
11. Functional Ground connection (M4x8mm stud).
12. Reset button. Set default Power Supply settings.
13. G+ 5kW 1000V and 1.500V has the same housing as 7.5kW

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



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



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

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

The power supply can be controlled via the rear panel Remote digital interface (LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation.

Active current sharing allows up to twelve (12) identical units to be connected

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

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

Order P/N: G/P - 6U

Series operation

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

Multi-Drop Remote Programming via Communication Interface

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

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

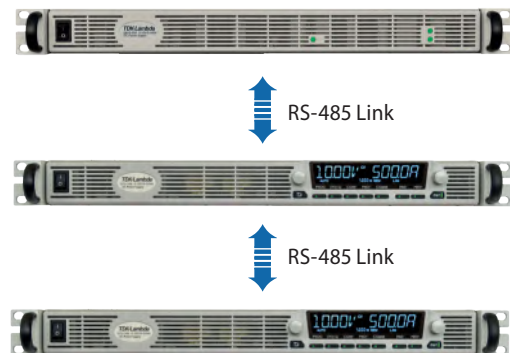


LAN, USB, RS-232, RS-485, IEEE, AnyBus

Standard Unit - zero stacked up to 12 units



Standard & Blank - zero stacked up to 12 units

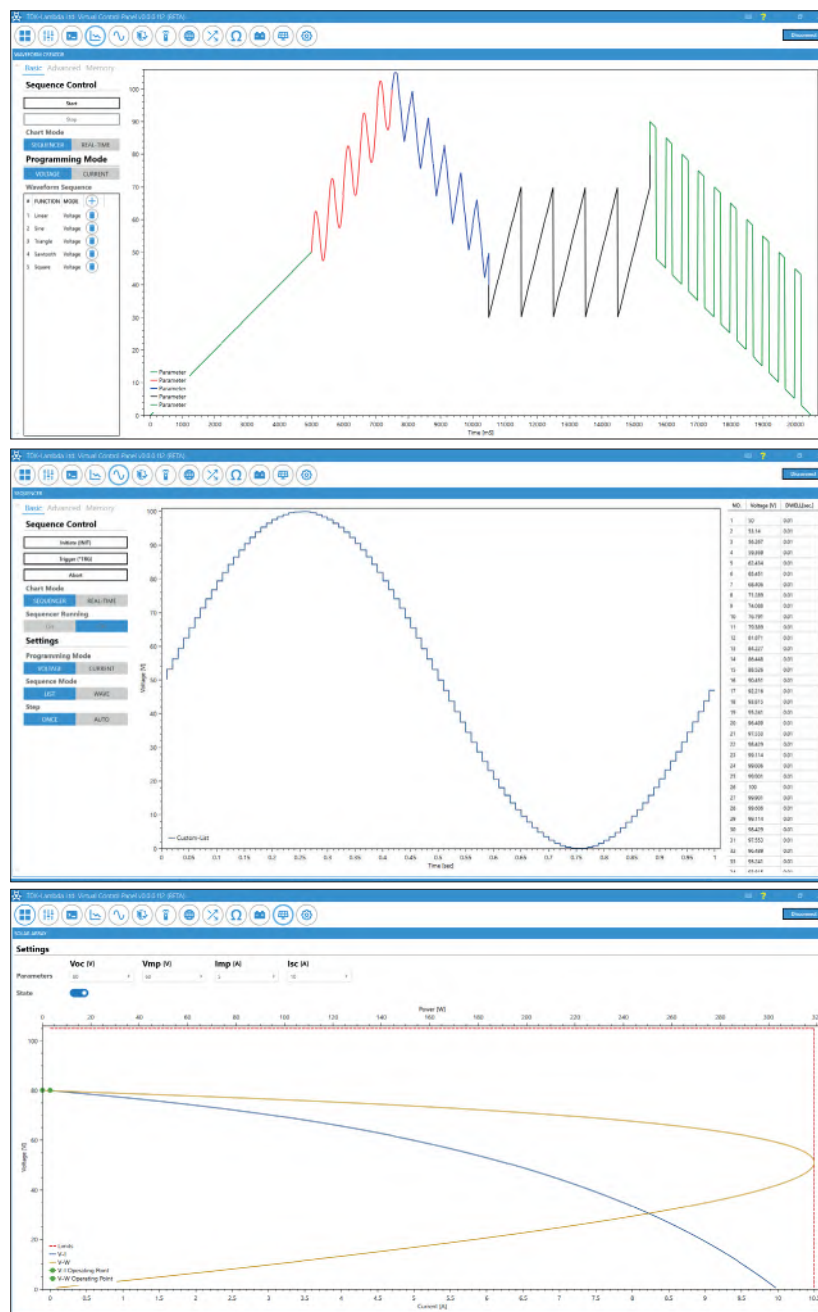


Graphical User Interface

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

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

GUI Waveform Profile Generator



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

G	10	170			
Series Name	Output	Output	Interface Options	AC Cord Options only for 1kW	Accessories Options
Front Panel Type	Voltage	Current		Region: E - Europe	M - Printed *User Manual
Empty: standard	(0~10V)	(0~170A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Panel (ATE version)				J - Japan	P - Bus Parralleling Cable
				C - China	
				I - Middle East	

AC Inputs (All Models)

1Ø, 85 ~ 265Vac

Interface Options (Factory installed)

LAN (LX1.5 compliant with Multi-Drop capability)- built-in
 USB 2.0 compliant with Multi-Drop capability - built-in
 RS-232/RS-485 - built-in
 Isolated Analog Program/Monitor Interface
 (5V/10V Pgm/Mon with 600V isolation) - built-in
 IEEE (488.2 & SCPI compliant with Multi-Drop capability installed)
 Modbus-TCP
 EtherCAT
 Isolated Analog Current Program/Monitor Interface
 (4mA-20mA with 600V isolation)

P/N

-
 -
 -
 -
 IEEE
 MDBS
 ECAT
 IS420

Models 1kW

Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000
G20-50	0~20V	0~50	1000
G30-34	0~30V	0~34	1020
G40-25	0~40V	0~25	1000
G60-17	0~60V	0~17	1020

Model	Voltage (V)	Current (A)	Power (W)
G80-12.5	0~80V	0~12.5	1000
G100-10	0~100V	0~10	1000
G150-7	0~150V	0~7	1050
G300-3.5	0~300V	0~3.5	1050
G600-1.7	0~600V	0~1.7	1020

Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700
G20-85	0~20V	0~85	1700
G30-56	0~30V	0~56	1680
G40-42	0~40V	0~42	1680
G60-28	0~60V	0~28	1680

Model	Voltage (V)	Current (A)	Power (W)
G80-21	0~80V	0~21	1680
G100-17	0~100V	0~17	1700
G150-11.2	0~150V	0~11.2	1680
G300-5.6	0~300V	0~5.6	1680
G600-2.8	0~600V	0~2.8	1680

Accessories

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

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

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

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

Daisy-chain up to 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

G	10	340	-	-	-
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		1P208 (Single Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase 170~265VAC)	* User Manual & GUI are available on the website
B: Blank Front Panel (ATE version)				3P400 (Three Phase 342~460VAC)	
				3P480 (Three Phase 342~528VAC)	P - Bus Parralleling Cable

Interface Options (Factory installed)

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

P/N

-
 -
 -
 -
 IEEE
 MDBS
 ECAT
 IS420

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 separately from the Power Supply packing, according to order.

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

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

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

Daisy-chain up to 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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GENESYS™ Family Output Voltage and Current

Models Series	G (Std Front Panel Display) GB (Blank Front Panel Display)							GSP/GBSP (Scalable Power)	
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	5kW - HV	7.5kW	10kW	15kW
Voltage Range	Current Range (A)								
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A		-	0~1000A	0~1500A
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A		0~375A	0~500A	0~750A
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A		0~250A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A		0~188A	0~250A	0~375A
0-50V	-	-	-	-	0~100A		-	0~200A	0~300A
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A		0~125A	0~170A	0~255A
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A		0~94A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A		0~75A	0~100A	0~150A
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A		0~50A	0~68A	0~102A
0-200V	-	-	-	-	0~25A		0~37.5A	0~50A	0~75A
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A		0~25A	0~34A	0~51A
0-400V	-	-	-	-	0~13A		-	0~26A	0~39A
0-500V	-	-	-	-	0~10A		-	0~20A	0~30A
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A		0~12.5A	0~17A	0~25.5A
0-1000V	-	-	-	-		0~0.5A	0~7.5A	-	-
0-1500V	-	-	-	-		0~3.4A	0~5A	-	-
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	8.5/18.7	15.5/34.2	23.5/51.8

AC Input Range

Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*	*
3P400	N/A	N/A	*	*	*	N/A	*	*
3P480	N/A	N/A	*	*	*	*	*	*

3P208 (Three Phase 170~265VAC), 3P400 (Three Phase 342~460VAC), 3P480 (Three Phase 342~528VAC)

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


Models 1kW

Model	Voltage (V)	Current (A)	Power (W)
GH10-100	0~10V	0~100	1000
GH20-50	0~20V	0~50	1000
GH30-34	0~30V	0~34	1020
GH40-25	0~40V	0~25	1000
GH60-17	0~60V	0~17	1020

Model	Voltage (V)	Current (A)	Power (W)
GH80-12.5	0~80V	0~12.5	1000
GH100-10	0~100V	0~10	1000
GH150-7	0~150V	0~7	1050
GH300-3.5	0~300V	0~3.5	1050
GH600-1.7	0~600V	0~1.7	1020

Models 1.5kW

Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500
GH20-75	0~20V	0~75	1500
GH30-50	0~30V	0~50	1500
GH40-38	0~40V	0~38	1520
GH60-25	0~60V	0~25	1500

Model	Voltage (V)	Current (A)	Power (W)
GH80-19	0~80V	0~19	1520
GH100-15	0~100V	0~15	1500
GH150-10	0~150V	0~10	1500
GH300-5	0~300V	0~5	1500
GH600-2.6	0~600V	0~2.6	1560

GENESYS™ 1kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7	
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600	
2.Rated output current (*2)		A	100	50	34	25	17	12.5	10	7	3.5	1.7	
3.Rated output power		W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020	
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600	
1.Input voltage/freq. (*3)		---	85~265Vac, continuous, 47~63Hz, Single Phase										
2. Maximum Input current at 100% load (100/200)		A	12.5/6.5										
3.Power Factor (Typ)		---	0.99 @ 100Vac 0.98 @ 200Vac, rated output power.										
4.Efficiency at 100 Vac/200Vac, rated output (*17)		%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90	
5.Inrush current (*5)		A	Less than 50A										
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*6)		---	0.01% of rated output voltage										
2.Max. Load regulation (*7)		---	0.01% of rated output voltage +2mV										
3.Ripple and noise (p-p, 20MHz) (*8)		mV	50	50	50	60	60	75	75	75	120	500	
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	12	9	20	100	
5.Temperature coefficient		PPM/°C	50PPM/°C from rated output voltage, following 30 minutes warm-up.										
6.Temperature stability		---	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.										
7. Warm-up drift		---	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.										
8.Remote sense compensation/wire (*10)		V	2	2	5	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)		mS	35	35	35	35	35	35	40	50	100	100	
10.Down-prog.response time:	Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220	
	No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600	
11.Transient response time		mS	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set-point: 10~100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.										
12.Start up delay		Sec	Less than 6 Sec										
13.Hold-up time		mS	20ms typical, rated output power										
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*6)		---	0.02% of rated output current. +2mA										
2.Max. Load regulation (*9)		---	0.02% of rated output current. +5mA										
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)		mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5	
5.Temperature coefficient		PPM/°C	10V~100V 100PPM/°C from rated output current, following 30 minutes warm-up. 150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.										
6.Temperature stability		---	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.										
7. Warm-up drift		---	10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.										
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)													
1.Vout voltage programming		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.										
2.Iout voltage programming (*14)		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.										
3.Vout resistor programming		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.										
4.Iout resistor programming (*14)		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.										
5.Output voltage monitor		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.										
6.Output current monitor (*14)		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Iout.										
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)													
1. Power supply OK #1 signal		---	Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.										
2. CV/CC signal		---	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.										
3. LOCAL/REMOTE Analog control		---	Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.										
4. LOCAL/REMOTE Analog signal		---	analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.										
5. ENABLE/DISABLE signal		---	Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.										
6. INTERLOCK (ILC) control		---	Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.										
7. Programmed signals		---	Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)										
8. TRIGGER IN / TRIGGER OUT signals		---	Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum, Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.										
9. DAISY_IN/SO control signal		---	By electrical Voltage: 0~0.6V/2~30V or dry contact.										
10. DAISY_OUT/PS_OK #2 signal		---	4~5V=OK, 0V (500ohm impedance)=Fail										
FUNCTIONS AND FEATURES													
1. Parallel operation		---	Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual.										
2. Series operation		---	Possible. Two identical units. Refer to instruction manual.										
3. Daisy chain		---	Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.										
4. Constant power control		---	Limits the output power to a programmed value. Programming via the communication ports or the front panel.										
5. Output resistance control		---	Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.										
6. Slew rate control		---	Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel.										
7. Arbitrary waveforms		---	Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.										
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)		V	10	20	30	40	60	80	100	150	300	600	
1.Vout programming accuracy (*15)		---	0.05% of rated output voltage										
2.Iout programming accuracy (*14)		---	0.1% of actual output current+0.2% of rated output current										
3.Vout programming resolution		---	0.002% of rated output voltage										
4.Iout programming resolution		---	0.002% of rated output current										
5.Vout readback accuracy		---	0.05% of rated output voltage										
6.Iout readback accuracy (*14)		---	0.2% of rated output current									0.25% of rated output current	
7.Vout readback resolution (of rated output voltage)		%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%	
8.Iout readback resolution (of rated output current)		%	0.011%	0.003%	0.004%	0.005%	0.007%	0.009%	0.011%	0.015%	0.004%	0.007%	

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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
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current(*2)		A	170	85	56	42	28	21	17	11.2	5.6	2.8
3.Rated output power		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)		---	85~265Vac, continuous, 47~63Hz,Single Phase									
2. Maximum Input current at 100% load (100/200)		A	20/10									
3.Power Factor (Typ)		---	0.99 @ 100Vac 0.98 @ 200Vac, rated output power.									
4.Efficiency at 100 Vac/200Vac, rated output (*19)		%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		A	Less than 50A									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		---	0.01% of rated output voltage									
2.Max. Load regulation (*7)		---	0.01% of rated output voltage +2mV									
3.Ripple and noise (p-p, 20MHz) (*8)		mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient		PPM/°C	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
6.Temperature stability		---	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
7. Warm-up drift		---	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
8.Remote sense compensation/wire (*10)		V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100
10. Down-prog.response time:		Full load (*12)	mS	30	30	60	60	60	60	120	220	200
		No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600
11.Transient response time		mS	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set-point: 10~100V, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.									
12.Start up delay		Sec	Less than 6 Sec									
13.Hold-up time		mS	16ms typical, rated output power									
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		---	0.01% of rated output current. +2mA									
2.Max. Load regulation (*9)		---	0.02% of rated output current. +5mA									
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)		mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient		PPM/°C	10V~100V 100PPM/°C from rated output current, following 30 minutes warm-up. 150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.									
6.Temperature stability		---	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
7. Warm-up drift		---	10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on.									
			150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.									
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)												
1.Vout voltage programming		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.									
2.Iout voltage programming (*14)		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.									
3.Vout resistor programming		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.									
4.Iout resistor programming (*14)		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.									
5.Output voltage monitor		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout..									
6.Output current monitor (*14)		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated Iout.%.									
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)												
1. Power supply OK #1 signal		---	Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
2. CV/CC signal		---	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
3. LOCAL/REMOTE Analog control		---	Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.									
4. LOCAL/REMOTE Analog signal		---	analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
5. ENABLE/DISABLE signal		---	Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.									
6. INTERLOCK (ILC) control		---	Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.									
7. Programmed signals		---	Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)									
8. TRIGGER IN / TRIGGER OUT signals		---	Maximum low level input voltage = 0.8V,Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.									
9. DAISY_IN/SO control signal		---	By electrical Voltage: 0~0.6V/2~30V or dry contact.									
10. DAISY_OUT/PS_OK #2 signal		---	4~5V=OK, 0V (500ohm impedance)=Fail									
FUNCTIONS AND FEATURES												
1. Parallel operation		---	Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual.									
2. Series operation		---	Possible. Two identical units. Refer to instruction manual.									
3. Daisy chain		---	Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.									
4. Constant power control		---	Limits the output power to a programmed value. Programming via the communication ports or the front panel.									
5. Output resistance control		---	Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.									
6. Slew rate control		---	Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel.									
7. Arbitrary waveforms		---	Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.									
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)		V	10	20	30	40	60	80	100	150	300	600
1.Vout programming accuracy (*15)		---	0.05% of rated output voltage									
2.Iout programming accuracy (*14)		---	0.1% of actual output current+0.2% of rated output current									
3.Vout programming resolution		---	0.002% of rated output voltage									
4.Iout programming resolution		---	0.002% of rated output current									
5.Vout readback accuracy		---	0.05% of rated output voltage									
6.Iout readback accuracy (*14)		---	0.2% of rated output current									
7.Vout readback resolution (of rated output voltage)		%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
8.Iout readback resolution (of rated output current)		%	0.007%	0.002%	0.003%	0.003%	0.005%	0.006%	0.007%	0.010%	0.003%	0.004%

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PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection		---	Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.									
2.Over-voltage protection (OVP)		---	Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.									
3.Over-voltage programming range		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming accuracy		---	+/-1% of rated output voltage									
5.Output under voltage limit (UVL)		---	Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.									
6.Over temperature protection		---	Shuts down the output. Auto recovery by autostart mode.									
7. Output under voltage limit (UVL)		---	Prevents adjustment of Vout below limit.									
8. Output under voltage protection (UVP)		---	Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.									
FRONT PANEL												
1.Control functions		---	Multiple options with 2 Encoders									
		---	Vout/Iout/Power Limit manual adjust									
		---	OVP/UVL/UVP manual adjust									
		---	Protection Functions - OVP, UVL,UVP, Foldback, OCL, ENA, ILC									
		---	Communication Functions - Selection of LAN,IEEE,RS232,RS485,USB or Optional communication interface.									
		---	Output ON/OFF. Front Panel Lock.									
		---	Communication Functions - Selection of Baud Rate, Address, IP and communication language.									
		---	Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming									
		---	Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.									
2.Display		---	Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.									
		---	Iout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.									
3.Front Panel Buttons Indications		---	OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION,CONFIGURATION, SYSTEM, SEQUENCER.									
4. Front Panel Display Indications		---	Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.									
ENVIRONMENTAL CONDITIONS												
1.Operating temperature		---	0~50°C, 100% load.									
2.Storage temperature		---	-30~85°C									
3.Operating humidity		%	20~90% RH (no condensation).									
4.Storage humidity		%	10~95% RH (no condensation).									
5.Altitude		---	Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).									
MECHANICAL												
1.Cooling		---	Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear									
2.Weight		kg	Less than 5kg.									
3.Dimensions (WxHxD)		mm	W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing).									
4.Vibration		---	MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1									
5.Shock		---	Less than 20G, half sine, 11mSec. Unit is unpacked.									
SAFETY/EMC												
1.Applicable standards:	Safety G1kW/G1.7kW	---	UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.									
1.1. Interface classification	G1kW/1.7kW	---	Vouts≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, J8 (sense) & J9 (communication options) are Non Hazardous. 60≤Vouts≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.									
1.2 Withstand voltage	G1kW/1.7kW	---	Vouts≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vouts≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V<Vouts≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min. Input - Ground: 2835VDC 1min.									
1.3 Insulation resistance		---	100Mohm at 25°C, 70%RH. Output to Ground 500VDC									
2.Conducted emission		---	IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A.									
3.Radiated emission		---	IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A									
4. EMC compliance	EMC (*4)	---	According to IEC/EN61204-3 Industrial environment									

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

NOTES:

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

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

*3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).

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

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

*6: 85~132Vac or 170~265Vac. Constant load.

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

*8: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe.

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

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

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

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

*13: 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. 8.W 5Hz~1MHz.

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

*15: Measured at the sensing point.

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

*17: Ta=25°C, rated output power.

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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	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)		A	265	135	90	68	45	34	27	18	9	4.5
3. Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. 3 phase, 3 wire + Ground (*4)		---	3-Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac) 3-Phase, 400V models: 342~460Vac, 47~63Hz (Covers 380/400/415Vac) 3-Phase, 480V models: 342~528Vac, 47~63Hz (Covers 380/400/415/440/460/480Vac) 1-Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/208/230/240Vac)									
2. Maximum Input current at 100% load	3-Phase, 200V models:	---	10A @ 200Vac									
	3-Phase, 400V models:	---	5.5A @ 380Vac									
	3-Phase, 480V models:	---	5.5A @ 380Vac									
	1-Phase, 200V models:	---	16.5A @ 200Vac									
3. Power Factor (Typ)		---	For 3-Phase: 0.94 @ 200/380Vac, rated output power. For 1-Phase: 0.99 @ 200Vac, rated output power.									
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)		A	Less than 50A									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	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	75	75	75	80	80	100	120	200	480
4. Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5. Temperature coefficient		PPM/°C	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
6. Temperature stability		---	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
7. Warm-up drift		---	Less than 0.05% of rated output voltage+2mV over 30 minutes following power on.									
8. Remote sense compensation/wire (*10)		V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
10. Down-prog. response time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11. Transient response time		mS	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set-point: 10~100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.									
12. Start up delay		Sec	Less than 6 Sec									
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		---	0.05% of rated output current.									
2. Max. Load regulation (*13)		---	0.08% of rated output current.									
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
5. Temperature coefficient		PPM/°C	10V~100V 100PPM/°C from rated output current, following 30 minutes warm-up. 150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.									
6. Temperature stability		---	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
7. Warm-up drift		---	10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.									
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)												
1. Vout voltage programming		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.									
2. Iout voltage programming (*15)		---	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated Iout.									
3. Vout resistor programming		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.									
4. Iout resistor programming (*15)		---	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Iout.									
5. Output voltage monitor		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.									
6. Output current monitor (*15)		---	0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.									
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)												
1. Power supply OK #1 signal		---	Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
2. CV/CC signal		---	CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
3. LOCAL/REMOTE Analog control		---	Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.									
4. LOCAL/REMOTE Analog signal		---	analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.									
5. ENABLE/DISABLE signal		---	Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.									
6. INTERLOCK (ILC) control		---	Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.									
7. Programmed signals		---	Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)									
8. TRIGGER IN / TRIGGER OUT signals		---	Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.									
9. DAISY_IN/SO control signal		---	By electrical Voltage: 0~0.6V/2~30V or dry contact.									
10. DAISY_OUT/PS_OK #2 signal		---	4~5V=OK, 0V (500ohm impedance)=Fail									
FUNCTIONS AND FEATURES												
1. Parallel operation		---	Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual.									
2. Series operation		---	Possible. Two identical units. Refer to instruction manual.									
3. Daisy chain		---	Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.									
4. Constant power control		---	Limits the output power to a programmed value. Programming via the communication ports or the front panel.									
5. Output resistance control		---	Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.									
6. Slew rate control		---	Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel.									
7. Arbitrary waveforms		---	Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.									
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces)		V	10	20	30	40	60	80	100	150	300	600
1. Vout programming accuracy (*16)		---	0.05% of rated output voltage									
2. Iout programming accuracy (*15)		---	0.1% of actual output current+0.2% of rated output current									
3. Vout programming resolution		---	0.002% of rated output voltage									
4. Iout programming resolution		---	0.002% of rated output current									
5. Vout readback accuracy		---	0.05% of rated output voltage									
6. Iout readback accuracy (*15)		---	0.2% of rated output current									
7. Vout readback resolution (of rated output voltage)		%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
8. Iout readback resolution (of rated output current)		%	0.005%	0.008%	0.002%	0.002%	0.003%	0.004%	0.005%	0.007%	0.002%	0.003%

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

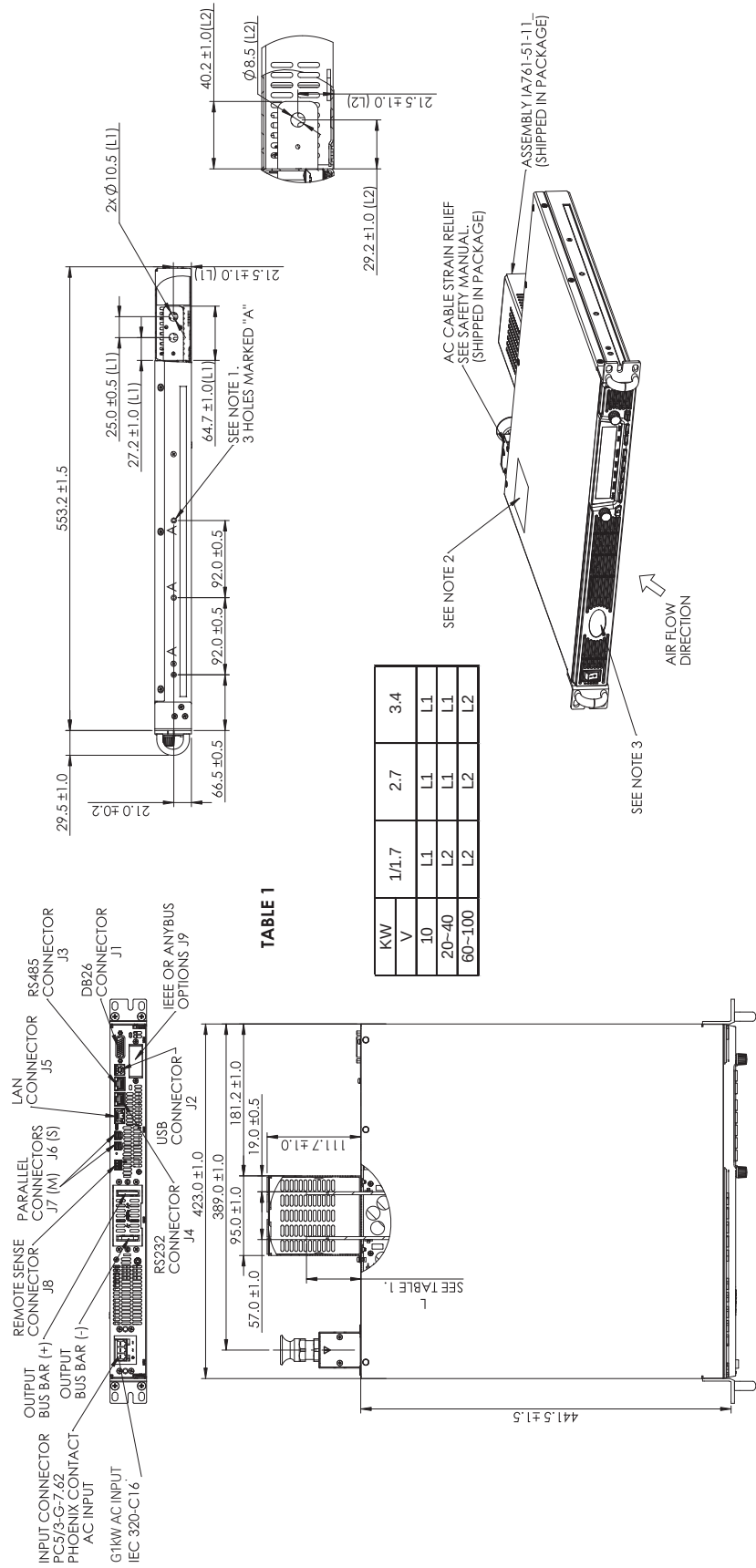


TABLE 1

KW	1/1.7	2.7	3.4
V	L1	L1	L1
10	L2	L1	L1
20-40	L2	L2	L2
60-100	L2	L2	L2

- NOTE
1. MOUNTING HOLES FOR SLIDES P/INCC3001-00-S160, GENERAL DEVICES OR EQUIVALENT. USE #10-32x0.38INCH x3 SCREWS FOR EACH SLIDE. ENSURE THAT THE SCREWS DO NOT PENETRATE MORE THAN 6.0mm INTO THE UNIT.
 2. AC INPUT RATING, SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE ADDRESS LABEL ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
 3. MODEL NAME, OUTPUT RATING AND COMPANY LOGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
 4. MOUNTING HOLES FOR 19" RACK, USE M6x16 SCREWS TO FIX THE UNIT TO THE RACK.

Outline Drawing **GENESYS™** GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version
(Not includes G+5kW models: 1000V & 1500V).

