



GENESYS MGH1kW/1.5kW Series

Programmable DC Power Supplies Half-Rack 1kW/1.5kW in 1U Height

! Advanced Features Built-In!

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



TDK·Lambda

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 (1.5kW in 1U height) in 19" Half-Rack-mount
- Light-weight <3.5 kg
- Wide Range of popular worldwide AC inputs: GH1kW/1.5kW: 1ø (85~265VAC)
- Active PFC (0.99 typical)
- Output Voltage up to 600V, Current up to 150A
- 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 EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems
- Parallel Systems with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

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

Test & Measurement systems, Component Device Testing, Manufacturing and process control.

Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology.

Higher power systems can be configured with up to four 1.5kW units. Each unit is 1U with zero space between them (zero stack).

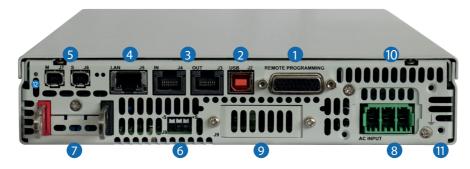
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

GH1kW/1.5kW Front Panel Description



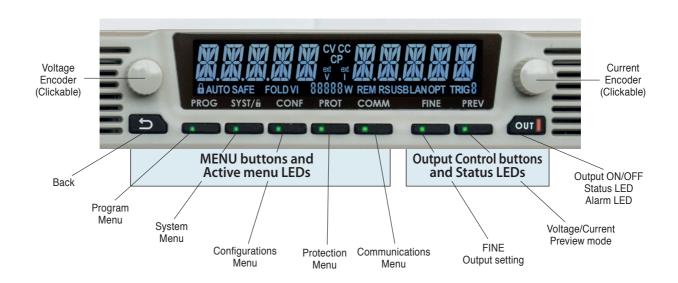
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GH1kW/1.5kW Rear Panel Description

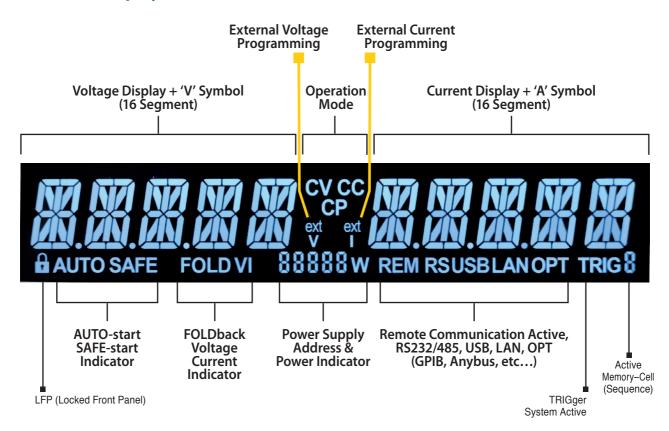


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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; Output connector: PHOENIX CONTACT GIC 2.5/4-G-7,62 for models with Outputs >100V. Plug connector: PHOENIX CONTACT GIC 2.5/4-ST-7,62 for models with Outputs >100V.
- GH1.5kW Input: 85~265VAC, Single Phase, 50/60 Hz.
 AC Input Connector: PHOENIX CONTACT Power Combicon PC 5/3-G-7,62
 AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7,62
 Series with strain relief. (Model shown) GH1kW 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 (M3x8mm screw).
- 12. Reset button. Set default Power Supply settings.

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



GENESYS™ GHB1kW/1.5kW 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 four identical units to be connected

Total real current is programmed, measured and reported by the Master. Up to four supplies operate as one. Standard Unit - zero stacked up to 4 units



Series operation

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

Multi-Drop Remote Programming via Communication Interface

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

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



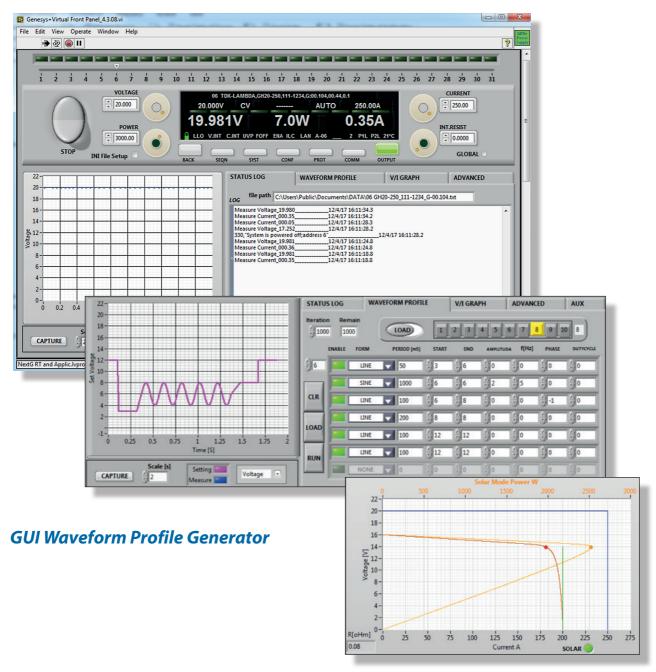


LAN, USB, RS-232, RS-485, IEEE, AnyBus

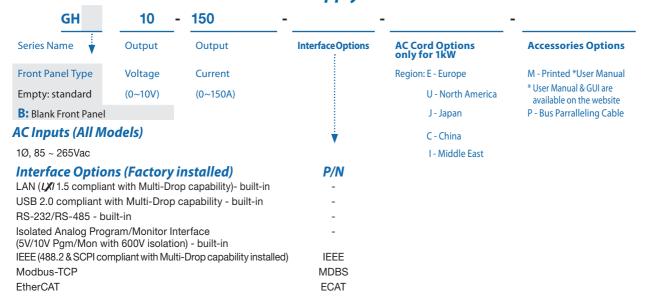
Graphical User Interface

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 COMMunication)
- 3. Informative "Parameters" status bar
- 4. Individual unit and Global command control
- 5. Data logging including errors, events and recovery
- 6. Realtime Graph and Waveform creator, store/load sequence.
- 7. Solar array mode calculate MPP (Max Peak Power) for solar array.
- 8. Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals.
- 9. Remote communication state LOC, REM, LLO.
- 10. Programmed signals 1&2



How to order GH1kW/1.5kW - Power Supply Identification / Accessories



Models 1kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)
GH10-100	0~10V	0~100	1000	GH80-12.5	0~80V
GH20-50	0~20V	0~50	1000	GH100-10	0~100V
GH30-34	0~30V	0~34	1020	GH150-7	0~150V
GH40-25	0~40V	0~25	1000	GH300-3.5	0~300V
GH60-17	0~60V	0~17	1020	GH600-1.7	0~600V

Model	voitage (v)	Current (A)	I OWEI (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

Current (A) Power (W)

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

Accessories

Rack Mounting applications P/N:GH/RM

The Rack Mounted kit allows the units to be zero stacking for maximum system flexibility and power density without increasing the 1U height of the units To install one GH1kW/1.5kW unit or two units side-by-side in a standard 19" rack in 1U(1.75") height, use option kit P/N:GH/RM

Single unit installation

Single GH1kW/1.5kW power supply in a standard 19" rack in 1U(1.75") height

Dual unit installation

Two GH1kW/1.5kW power supplies side-by-side in a standard 19" rack in 1U (1.75") height



Benchtop applications Multi Output P/N:GH/MO

The benchtop stacking kit allows the units to be Zero stacked for maximum system flexibility and power density without increasing the 1U height of the units.

To install a GH1kW/1.5kW two units one on top of the other use option kit P/N:GH/MO-2U



GENESYS™ GH1kW SERIES SPECIFICATIONS

OUTPUT RATING	GH	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	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, co	ntinuous, 47~6															
2. Maximum Input current at 100% load (100/200)) A	12.5/6.5																
3.Power Factor (Typ)	 %	0.99 @ 100Vac	0.98 @ 200Va	, rated output	power.													
4.Efficiency at 100 Vac/200Vac, rated output (*17)		86/88																
5.Inrush current (*5)		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)			output voltage			-												
3.Ripple and noise (p-p, 20MHz) (*8)		50	50	50	60	60	75	75	75	200	500							
4.Ripple and noise (p-p, 20M12) (0)		6	6	6	7	7	10	20	20	50	100							
5.Temperature coefficient	mV PPM/°C																	
6.Temperature stability		50PPM/°C from rated output voltage, following 30 minutes warm-up. 101% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load 8 temp.																
7. Warm-up drift		0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.																
8.Remote sense compensation/wire (*10)		2	2	5	5	5	5	5	5	5	5							
D.Up-prog. Response time (*11)	V mS	35	35	35	35	35	35	40	50	100	100							
Full load (*12)	mS	30	30	60	60	60	60	80	120	220	220							
0.Down-prog.response time: No load (*12)	mS	500	700	900	1200	1500	1700	2000	2500	3300	3500							
No load (* 12)	III3																	
11.Transient response time	mS	Local sense. Le	ess than 1.5mS.	for 10V models.	Less than 1m!	output for a load 5, for models un	d change 10~90 to and includir	ng 100V. 2mS f	or models abov	e 100V.	10~100%,							
2.Start up delay	Sec	Less than 6 Sec						<u> </u>										
3.Hold-up time	mS		ated output po	wer														
<u> </u>		,,																
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600							
.Max. Line regulation (*6)			output current															
P.Max. Load regulation (*9)			output current				,			1	1							
Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*	13) mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5							
.Temperature coefficient	PPM/°C		00PPM/°C from															
<u> </u>			OPPM/°C from															
5.Temperature stability		.02% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.																
. 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.																
ANALOS PROSPANANINS AND MONITORINS (IS	01 4750 500147																	
ANALOG PROGRAMMING AND MONITORING (IS				1														
I.Vout voltage programming			or 0~10V, user															
2.lout voltage programming (*14)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.																
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.																
4.lout resistor programming (*14)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.																
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.																
5.Output current monitor (*14)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.																
SIGNALS AND CONTROLS (ISOLATED FROM THE	OUTPUT)																	
1. Power supply OK #1 signal		Power supply	output monitor	. Open collecto	r. Output On: C	n. Output Off:	Off. Maximum V	oltage: 30V, M	aximum Sink Cı	ırrent: 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						-					Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.							
5. ENABLE/DISABLE signal																		
5. INTERLOCK (ILC) control				Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.														
7. Programmed signals		Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.																
		Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge							en.									
8. TRIGGER IN / TRIGGER OUT signals				le signals. Maxi	mum voltage 2	. Remote: 0~0.6 5V, Maximum s	V or short. Loca ink current 100	al: 2~30V or ope mA (Shunted b	en. y 27V zener)									
-		Maximum lov	w level input v	le signals. Maxi oltage = 0.8V	mum voltage 2 ,Minimum hi	. Remote: 0~0.6 5V, Maximum s gh level input	V or short. Loca ink current 100	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
		Maximum lov trigger: tw=1	w level input v	le signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma	mum voltage 2 ,Minimum hiç ximum, Min c	. Remote: 0~0.6 5V, Maximum s gh level input	ov or short. Loca ink current 100 voltage = 2.5\	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
9. DAISY_IN/SO control signal		Maximum lov trigger: tw=1 By electrical Vo	w level input v Ous minimum	le signals. Maxi voltage = 0.8V i. Tr,Tf=1us Ma 2~30V or dry co	mum voltage 2 ,Minimum hiç ximum, Min c	. Remote: 0~0.6 5V, Maximum s gh level input	ov or short. Loca ink current 100 voltage = 2.5\	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
D. DAISY_IN/SO control signal IO. DAISY_OUT/PS_OK #2 signal		Maximum lov trigger: tw=1 By electrical Vo	w level input v Ous minimum oltage: 0~0.6V/	le signals. Maxi voltage = 0.8V i. Tr,Tf=1us Ma 2~30V or dry co	mum voltage 2 ,Minimum hiç ximum, Min c	. Remote: 0~0.6 5V, Maximum s gh level input	ov or short. Loca ink current 100 voltage = 2.5\	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
D. DAISY_IN/SO control signal O. DAISY_OUT/PS_OK #2 signal CUNCTIONS AND FEATURES		Maximum lov trigger: tw=1 By electrical Vo 4~5V=OK, 0V (w level input v Ous minimum oltage: 0~0.6V/ 500ohm imped	le signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail	mum voltage 2 ,Minimum hiq ximum, Min c ntact.	. Remote: 0~0.6 :5V, Maximum s gh level input lelay between	oV or short. Loca ink current 100 voltage = 2.5\ 1.2 pulses 1ms.	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal CUNCTIONS AND FEATURES D. Parallel operation		Maximum lov trigger: tw=1 By electrical Vo 4~5V=OK, OV (Possible. Up to	w level input v Ous minimum oltage: 0~0.6V/ 5000hm impec	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla	mum voltage 2 ,Minimum hiq ximum, Min c ntact.	. Remote: 0~0.6 :5V, Maximum s gh level input lelay between	oV or short. Loca ink current 100 voltage = 2.5\ 1.2 pulses 1ms.	nl: 2~30V or ope mA (Shunted b /, Maximum h	en. y 27V zener)									
DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal CUNCTIONS AND FEATURES Parallel operation Describes operation		Maximum lov trigger: tw=1 By electrical Vo 4~5V=OK, OV (Possible. Up to Possible. Two i	w level input v Ous minimum oltage: 0~0.6V/ 5000hm impec o 4 identical uni dentical units.	le signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla Refer to instruc	mum voltage 2 ,Minimum hiq ximum, Min c ntact. ve mode. Refer tion manual.	. Remote: 0~0.6.0 15V, Maximum s 13h level input 16elay between 1 to instruction i	oV or short. Loca ink current 100 voltage = 2.5\ 2 pulses 1ms.	ıl: 2~30V or opo mA (Shunted b /, Maximum h	en. y 27V zener)									
D. DAISY_IN/SO control signal O. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES Parallel operation S. Series operation D. Daisy chain	 	Maximum lov trigger: tw=1 By electrical Vd 4~5V=OK, 0V (Possible. Up to Possible. Two i Power supplie	w level input v Ous minimum oltage: 0~0.6V/ 500ohm impec o 4 identical uni dentical units. s can be conne	le signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla Refer to instruc- cted in Daisy ch	mum voltage 2 ,Minimum hiq ximum, Min c ntact. ve mode. Refer tion manual. ain to synchro	Remote: 0~0.6. 15V, Maximum s gh level input felay between to instruction of	iV or short. Loca ink current 100 voltage = 2.5\ 1.2 pulses 1ms. manual.	ıl: 2~30V or opr mA (Shunted b /, Maximum h	en. ny 27V zener) nigh level inpu									
D. DAISY_IN/SO control signal O. DAISY_OUT/PS_OK #2 signal CUNCTIONS AND FEATURES D. Parallel operation S. Series operation Daisy chain Constant power control		Maximum loo trigger: tw=1 By electrical Vd 4~5V=OK, 0V (Possible. Up to Possible. Two i Power supplie Limits the outp	w level input v Ous minimum oltage: 0~0.6V/ 5000hm impec o 4 identical uni dentical units. s can be conne- out power to a	le signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla Refer to instruc- cted in Daisy ch	mum voltage 2 "Minimum hig ximum, Min o ntact. ve mode. Refer tion manual. ain to synchro value. Program	Remote: 0~0.6. 5V, Maximum s Jh level input lelay between to instruction in nize their turn-c ming via the co	Worshort. Loca ink current 100 voltage = 2.5V 12 pulses 1ms. manual. on and turn-off. mmunication p	il: 2~30V or opr mA (Shunted b /, Maximum h	en. y 27V zener) iigh level inpu	t = 5V positiv								
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control	 	Maximum lov trigger: tw=1 By electrical V. 4~5V=OK, OV (Possible. Up to Possible. Two i Power supplie Limits the outp	w level input v Ous minimum oltage: 0~0.6V/ 500ohm impec 4 identical uni dentical units. s can be conner out power to a s resistance. Re	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla Refer to instruc- cted in Daisy ch oroggrammed sistance range:	mum voltage 2 "Minimum hig ximum, Min o ntact. ve mode. Refer tion manual. ain to synchro value. Program 1~1000mΩ. Pi	Remote: 0~0.6. SV, Maximum s jh level input lelay between to instruction in the instruction in the instruction in the instruction in the corogramming via the corogramming via	W or short. Loca ink current 100 voltage = 2.5\ 2 pulses 1ms. manual. on and turn-off. mmunication p	al: 2~30V or open MA (Shunted by I), Maximum h	en. y 27V zener) igh level inpu nt panel.	t = 5V positiv	e edge							
D. DAISY_IN/SO control signal D. DAISY_OUT/PS_OK #2 signal D. DAISY_OUT/PS_OK #2 signal D. Parallel operation D. Series operation D. Daisy chain C. Constant power control Dutput resistance control		Maximum lot trigger: tw=1 By electrical Vc 4~5V=OK, 0V (Possible. Up to Power supplie Limits the out; Emulates serie Programmable	w level input v Ous minimum oltage: 0~0.6V/ 5000hm impec o 4 identical units. Is s can be conner just power to a just power to a just power to e out power to e	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry co lance)=Fail ts in Master/Sla Refer to instruc- cted in Daisy ch oroggrammed sistance range:	mum voltage 2 "Minimum hig ximum, Min o ntact. ve mode. Refer tion manual. ain to synchro value. Program 1~1000mΩ. Pi	Remote: 0~0.6. SV, Maximum s jh level input lelay between to instruction in the instruction in the instruction in the instruction in the corogramming via the corogramming via	Worshort. Loca ink current 100 voltage = 2.5V 12 pulses 1ms. manual. on and turn-off. mmunication p	al: 2~30V or open MA (Shunted by I), Maximum h	en. y 27V zener) igh level inpu nt panel.	t = 5V positiv	e edge							
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Parallel operation Series operation Daisy chain Constant power control Output resistance control Slew rate control		Maximum los trigger: tw=1 By electrical V: 4~5V=OK, OV (Possible. Up to Power supplie Limits the out; Emulates serie Programmable ports or the fro	w level input v Ous minimum oltage: 0~0.6V/ 5000hm impec o 4 identical units. I s can be conner put power to a ss resistance. Re e Output rise ar ont panel.	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2-30V or dry co lance)=Fail ts in Master/Sla Refer to instruc- tted in Daisy ch oroggrammed v sistance range: d Output fall sl	mum voltage 2 Minimum high ximum, Min c intact. ve mode. Refet tion manual. ain to synchro value. Program 1~1000mΩ. Pie ew rate. Progra	Remote: 0~0.6. 5V, Maximum s h level input felay between to instruction r mize their turn-c ming via the co ogramming via mining range:	W or short. Loca ink current 100 voltage = 2.5\ 2 pulses 1ms. manual. on and turn-off. mmunication p	nl: 2~30V or open MA (Shunted by I), Maximum h	en. y 27V zener) iigh level inpu nt panel. the front panel. Sec. Programm	t = 5V positive	e edge							
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D. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, 185232/485, Optional IEEE (*16) Interfaces) 1. Wout programming accuracy (*15) 2. Jout programming accuracy (*14) 3. Wout programming resolution 4. Iout programming resolution 4. Iout programming resolution 5. Vout readback accuracy	V	Maximum lost trigger: tw=1 By electrical Vd 4~5V=OK, 0V (10 Possible. Two i Power supplie Limits the outper Emulates serie 10 0.05% of rated 0.1% of actual 0.002% of rated 0.0025% of rated 0.00	w level input voluments. See an be conner out power to a post power to a	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2-30V or dry co lance)=Fail ts in Master/Sla Refer to instruc tted in Daisy ch oroggrammed v sistance range: d Output fall sl be stored in 4 l 30 e +0.2% of rated of	mum voltage 2 Minimum hig ximum, Min c ntact. ve mode. Refer tion manual. ain to synchro value. Program 1~1000mΩ. Piew rate. Progra memory cells.	Remote: 0~0.6 5V, Maximum s sh level input felay between to instruction i mize their turn-c ming via the co cogramming via mming range: Activation by co	W or short. Loca ink current 100 voltage = 2.5\(\). 2 pulses 1ms. manual. on and turn-off. mmunication p the communic. 0.0001~999.99\(\)	al: 2~30V or open mA (Shunted b f, Maximum h orts or the fron ation ports or 1 f/mSec. or A/m communication	en. y 27V zener) igh level inpu nt panel. the front panel. Sec. Programm	t = 5V positive	e edge							
DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal DAISY_OUT/PS_OK	V	Maximum lost trigger: tw=1 By electrical Vd 4~5V=OK, OV (1) Possible. Up to Possible. Two i Power supplie Limits the out Emulates serie Programmable ports or the fire Profiles of up to 10 0.05% of rated 0.02% of rated 0.002% of rated 0.002% of rated 0.05% of ra	w level input voluments. See an be conner out power to a post power to a	le signals. Maxi voltage = 0.8V . Tr,Tf=1us Ma 2-30V or dry co lance)=Fail ts in Master/Sla Refer to instruc tted in Daisy ch oroggrammed v sistance range: d Output fall sl be stored in 4 l 30 e +0.2% of rated of	mum voltage 2 Minimum hig ximum, Min c ntact. ve mode. Refer tion manual. ain to synchro value. Program 1~1000mΩ. Piew rate. Progra memory cells.	Remote: 0~0.6 5V, Maximum s sh level input felay between to instruction i mize their turn-c ming via the co cogramming via mming range: Activation by co	W or short. Loca ink current 100 voltage = 2.5\(\). 2 pulses 1ms. manual. on and turn-off. mmunication p the communic. 0.0001~999.99\(\)	al: 2~30V or open mA (Shunted b f, Maximum h orts or the fron ation ports or 1 f/mSec. or A/m communication	en. y 27V zener) igh level inpu nt panel. the front panel. Sec. Programm	t = 5V positive	e edge							

GENESYS[™] **GH1.5kW SERIES SPECIFICATIONS**

OUTPUT RATING	GH	10-150	20-75	30-50	40-38	60-25	80-19	100-15	150-10	300-5	600-2.6	
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600	
2.Rated output current (*2)	A	150	75	50	38	25	19	15	10	5	2.6	
3.Rated output power	W	1500	1500	1500	1520	1500	1520	1500	1500	1500	1560	
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600	
1.Input voltage/freq. (*3)			ntinuous, 47~6	3Hz,Single Phas	se							
2. Maximum Input current at 100% load (100/200)	Α	18.5/9										
3.Power Factor (Typ) 4.Efficiency at 100 Vac (200 Vac rated output (*10)	%		0.98 @ 200Va			07/00	07/00	00/00	00/00	00/00	88/90	
4.Efficiency at 100 Vac/200Vac, rated output (*19) 5.Inrush current (*5)	90 A	86/88 Less than 50A	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90	
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*6)			output voltage		40	00	00	100	130	300	000	
2.Max. Load regulation (*7)			output voltage									
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	130	75	180	500	
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	8	30	20	45	100	
5.Temperature coefficient	PPM/°C					-		30	20	73	100	
6.Temperature stability			OPPM/°C from rated output voltage, following 30 minutes warm-up. .01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
7. Warm-up drift			% of rated outp					x temp.				
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	20	30	30	40	
Full load (*12)	mS	20	20	20	30	30	50	50	60	70	80	
10.Down-prog.response time: No load (*12)	mS	300	500	600	900	1200	1300	1700	2200	2700	3000	
			ut voltage to red									
11.Transient response time	mS	Local sense. Le	ess than 1mS, fo	r models up to	and including 1	00V. 2mS, for n	nodels above 10	00V.	put current. ou	tput set point.	10 10070,	
12.Start up delay	Sec	Less than 6 Sec	-									
13.Hold-up time	mS	20ms typical, ı	rated output po	wer								
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*6)			output current		-10	00		100	150	300	000	
2.Max. Load regulation (*9)			output current									
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5	
5.httppie i.m.s. @ rated voitage. b.w 5112**1Wi12. (15)	IIIA		100PPM/°C from					240	210	20	1 23	
5.Temperature coefficient	PPM/°C		70PPM/°C from i									
6.Temperature stability								temperature.				
one inperature stubinty		0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature. 10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on.										
7. Warm-up drift		150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.										
				or ratea outp	ar carrette over	501111111111111111111111111111111111111	g poner o	•••				
ANALOG PROGRAMMING AND MONITORING (ISOLATE	_											
1.Vout voltage programming			or 0~10V, user									
2.lout voltage programming (*14)			or 0~10V, user									
3.Vout resistor programming		_	10Kohm full sca									
4.lout resistor programming (*14)			10Kohm full sca				0.5% of rated lo	out.				
5.Output voltage monitor			/, user selectable									
6.Output current monitor (*14)		0~5V or 0~10\	/, user selectabl	e. Accuracy: +/-	0.5% of rated lo	out.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)											
1. Power supply OK #1 signal		Power supply	output monitor	. Open collecto	r. Output On: C	n. Output Off:	Off. Maximum \	/oltage: 30V, M	aximum Sink C	urrent: 10mA.		
2. CV/CC signal		CV/CC Monito	r. Open collecto	r. CC mode: On	. CV mode: Off.	Maximum Volt	age: 30V, Maxin	num Sink Curre	ent: 10mA.			
3. LOCAL/REMOTE Analog control			e analog progra				-			r open.		
4. LOCAL/REMOTE Analog signal											Α.	
5. ENABLE/DISABLE signal			analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 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		_										
7. Programmed signals			Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)									
		Maximum lo	w level input v	oltage = 0.8V	Minimum hic	h level input	voltage = 2.5\	/, Maximum h	<u>, </u>	it = 5V positiv	re edge	
8. TRIGGER IN / TRIGGER OUT signals		trigger: tw=1	Ous minimum	. Tr,Tf=1us Ma	ximum, Min d	elay between	2 pulses 1ms		Jpc	051014	5-	
9. DAISY_IN/SO control signal		By electrical V	oltage: 0~0.6V/	2~30V or dry co	ntact.							
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0V	(500ohm imped	lance)=Fail								
FUNCTIONS AND FEATURES												
1. Parallel operation		Possible Un to	4 identical uni	ts in Master/Sla	ve mode. Refer	to instruction	manual.					
2. Series operation			identical units. I									
3. Daisy chain			s can be connec			nize their turn-	on and turn-off					
4. Constant power control									nt nanel			
	_	Limits the output power to a proggrammed value. Programming via the communication ports or the front panel. Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.										
<u> </u>									the front nanel			
5. Output resistance control		Emulates serie		sistance range:	1~1000mΩ. Pr	ogramming via	the communic	ation ports or			nmunication	
<u> </u>		Emulates serie Programmable ports or the free	es resistance. Re e Output rise an ont panel.	sistance range: d Output fall sl	1~1000mΩ. Pr ew rate. Progra	ogramming via mming range:	the communic 0.0001~999.99	ation ports or V/mSec. or A/m	nSec. Programn	ning via the cor	nmunication	
5. Output resistance control		Emulates serie Programmable ports or the free	es resistance. Re e Output rise an	sistance range: d Output fall sl	1~1000mΩ. Pr ew rate. Progra	ogramming via mming range:	the communic 0.0001~999.99	ation ports or V/mSec. or A/m	nSec. Programn	ning via the cor	mmunication	
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Emulates serie Programmable ports or the free	es resistance. Re e Output rise an ont panel.	sistance range: d Output fall sl	1~1000mΩ. Pr ew rate. Progra	ogramming via mming range:	the communic 0.0001~999.99	ation ports or V/mSec. or A/m	nSec. Programn	ning via the cor	mmunication 600	
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)	 V	Emulates serie Programmabl ports or the fro Profiles of up t	es resistance. Re e Output rise an ont panel. to 100 steps can	sistance range: d Output fall sl be stored in 4	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1. Vout programming accuracy (*15)	 V	Emulates serie Programmabl, ports or the fro Profiles of up 1 10 0.05% of rated	es resistance. Re e Output rise an ont panel. to 100 steps can 20	sistance range: d Output fall sl be stored in 4 i	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	 V	Emulates serie Programmabl, ports or the fro Profiles of up t 10 0.05% of rated 0.1% of actual	es resistance. Re e Output rise an ont panel. to 100 steps can 20 I output voltage output current-	sistance range: d Output fall sl be stored in 4 i 30 e +0.2% of rated of	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution	 V	Emulates serie Programmable ports or the free Profiles of up t 10 0.05% of rated 0.1% of actual 0.002% of rate	es resistance. Re e Output rise an ont panel. to 100 steps can 20 I output voltage output current- ed output voltage	sistance range: d Output fall sl be stored in 4 t 30 e +0.2% of rated of	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution 4. lout programming resolution	V	Emulates serie Programmabl ports or the fre Profiles of up t 10 0.05% of rated 0.1% of actual 0.002% of rate	es resistance. Ree e Output rise an ont panel. to 100 steps can 20 I output voltage output current- d output voltage ted output current- doutput currented output currented output currented	sistance range: d Output fall sl be stored in 4 l 30 e +0.2% of rated o	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Emulates serie Programmabl ports or the fre Profiles of up 1 0.05% of rated 0.1% of actual 0.002% of rate 0.0025% of rate 0.005% of rate	es resistance. Re e Output rise an ont panel. to 100 steps can 20 Il output voltage output current- ed output voltage ded output voltage ed output voltage ed output voltage ded output voltage ded output voltage ded output voltage	sistance range: d Output fall sl be stored in 4 l 30 e +0.2% of rated o	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		
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5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Emulates serie Programmabl ports or the fre Profiles of up 1 0.05% of rated 0.1% of actual 0.002% of rate 0.0025% of rate 0.005% of rate	es resistance. Re e Output rise an ont panel. to 100 steps can 20 Il output voltage output current- ed output voltage ded output voltage ed output voltage ed output voltage ded output voltage ded output voltage ded output voltage	sistance range: d Output fall sl be stored in 4 i 30 e +0.2% of rated o	1~1000mΩ. Pr ew rate. Progra memory cells. A	ogramming via mming range: Activation by co	the communic 0.0001~999.99 ommand via the	eation ports or V/mSec. or A/m communication	nSec. Programn	ning via the cor he front panel.		

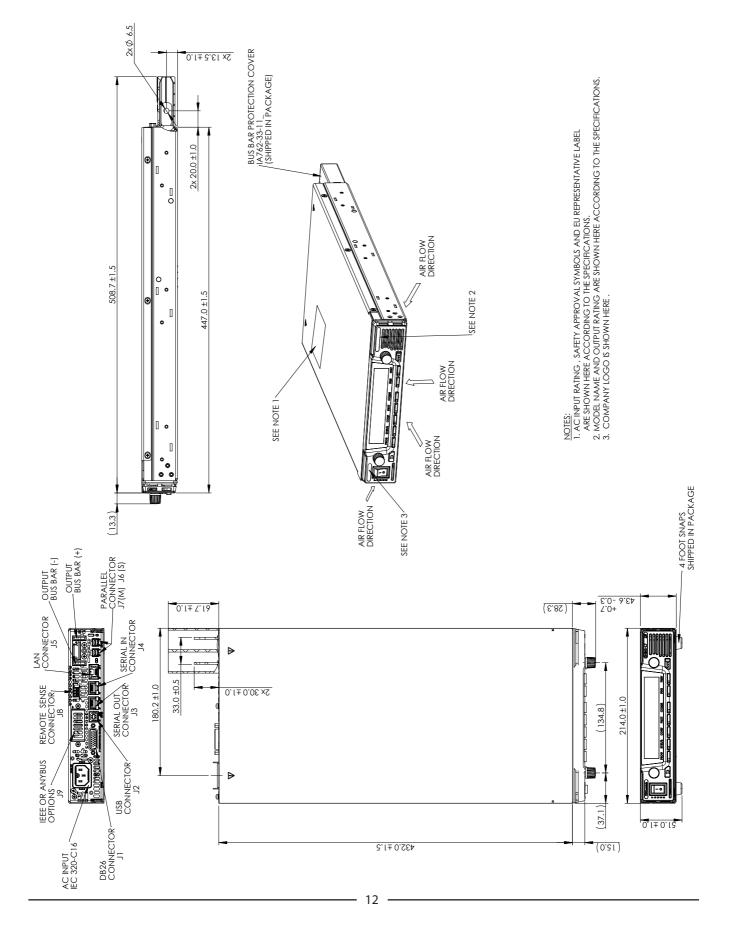
GENESYS™ GH1kW/1.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600				
1.Foldback protection			Output shut-d User presetab	utput shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. ser 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 (OVF	P)		Output shut-d	own. Reset by	AC input recyc	le in autostart r	mode, by OUTPI	JT button, by r	ear panel or by	y communicatio	n.					
3.Over -voltage programming		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 a	accuracy		+/-1% of rated	output voltag	e											
5.Output under voltage limit (L	IVL)		Prevents from	adjusting Vou	t below limit. D	oes not apply i	in analog progra	amming. Preset	by front pane	el or communica	ition port.					
6.Over temperature protection			Shuts down th	e output. Auto	recovery by a	utostart mode.										
7. Output under voltage limit (UVL)			Prevents adjus	tment of Vout	below limit.											
8. Output under voltage protection (UVP)			Prevents adjust Power Switch,	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 optio	ns with 2 Enco	dore											
1.Control functions																
			Vout/lout/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.													
						ud Rate Addro	ss ID and comm	unication land	11300							
				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						out voltage +/-1		UV.								
2.Display						t current +/-1 co										
3.Front Panel Buttons Indicatio	nc						ROTECTION.COM	JEIGHDATION :	CVCTEM CEOL	IENICED						
3.Front Panel Buttons Indicatio	115								,							
4. Front Panel Display Indications			Voltage, Curre RS/USB/LAN/I	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 CONDITION	S															
1.Operating temperature			0~50°C, 100%	load.												
2.Storage temperature			-30~85°C		-						-					
3.Operating humidity		%		o condonentio	m)		-									
		_	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 coo	ling by interna	I fans. Air flow	direction: from	Front panel to i	oower supply r	ear							
2.Weight		kg	Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear Less than 3.5kg.													
			W: 214, H: 43.6, D: 432 (Without busbars and busbars cover),													
3.Dimensions (WxHxD)		mm	W: 214, H: 43.6, D: 493 (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 GH1kW/1.5kW		UL61010-1, CS	A22.2 No. 6101	0-1, IEC61010-1	, EN61010-1.										
			Vout≤50V Mod	dels: Output. J	1, J2, J3, J4, J5. J	6, J7, J8 (sense)	& J9 (communi	cation options)	are Non Haza	rdous.						
1.1. Interface classification	GH1kW/1.5kW									ptions) are Non	Hazardous.					
							, J5, J6, J7 & J9 (c									
						se), J1, J2, J3, J4,	, אוי, סר, כר,	.OIIIIIUIIICatioii	options): 424.	ZVDC IIIIII,						
			Input - Ground													
									cation option	s): 4242VDC 1mi	η,					
							ation options): 8									
1.2 Withstand voltage	GH1kW/1.5kW		Output & J8 (s	ense) - Ground	l: 1500VDC 1mi	n, Input - Grour	nd: 2835VDC 1m	iin.								
			100V <vout≤60< td=""><td>00V Models: In</td><td>put – Output &</td><td>J8 (sense), J1, J</td><td>2, J3, J4, J5, J6, J</td><td>7 and J9 (comm</td><td>nunication opt</td><td>tions): 4242VDC</td><td>1min.</td><td></td></vout≤60<>	00V Models: In	put – Output &	J8 (sense), J1, J	2, J3, J4, J5, J6, J	7 and J9 (comm	nunication opt	tions): 4242VDC	1min.					
			Output & J8 (s	ense) - J1, J2, J3	3, J4, J5, J6, J7 &	J9 (communica	ation options): 1	275VDC 1min.								
			Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min.													
			Input - Ground													
1.3 Insulation resistance			<u> </u>		output to Grour	od 500VDC										
							FCC Part 15-A.	ICCL A								
2.Conducted emmision		_														
3.Radiated emission	Terre (% t)					ex H table H.3	and H4, FCC Pa	rt 15-A, VCCI-A								
4. EMC compliance	EMC (*4)		IEC/EN61204-3	Industrial env	/ironment											

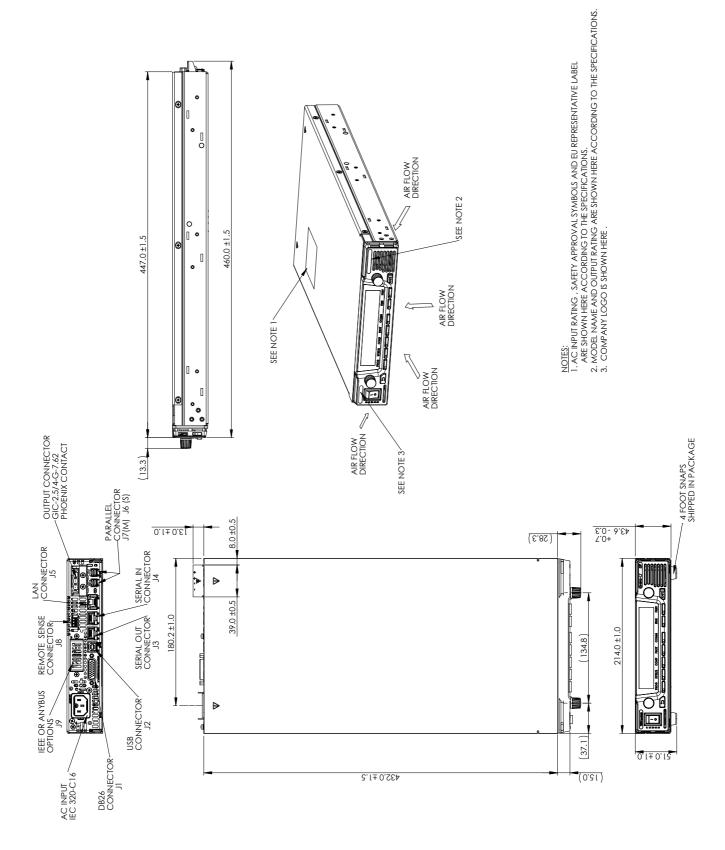
- Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C NOTES:

 *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 100-150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.
 *9: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 *11: From 10% to 90% of Rated Output Voltage, with rated, resistive load.
 *12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
 *13: For 10V model, the ripple is measured at 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. 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.
 *15: Measured at the sensing point.
 *16: Max. ambient temperature for using IEEE is 40°C.
 *17: Ta=25°C, rated output power.

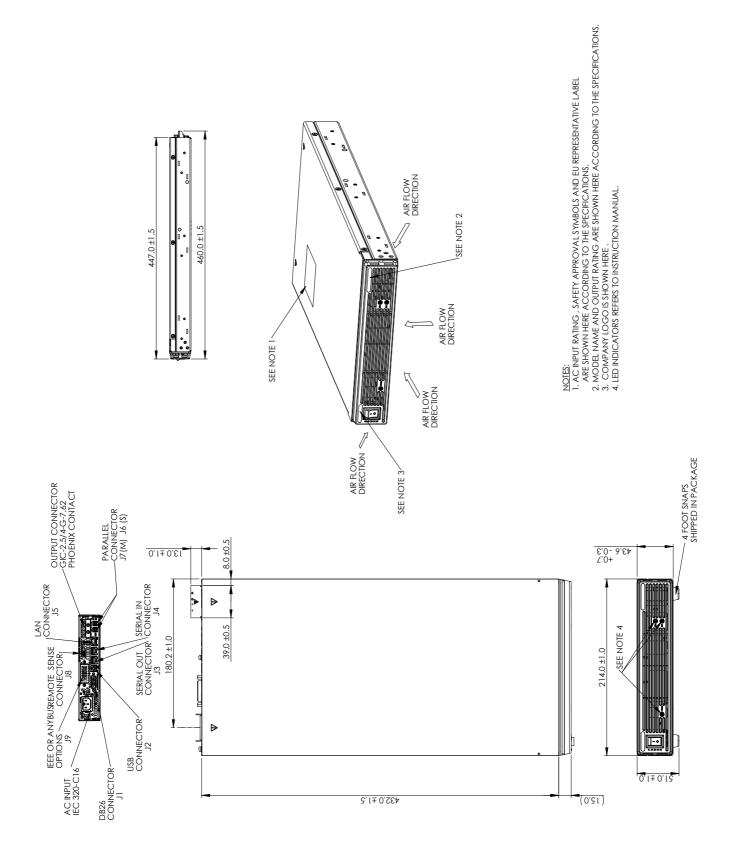
Outline Drawing **GENESYS™** GH1kW (10V-100V)



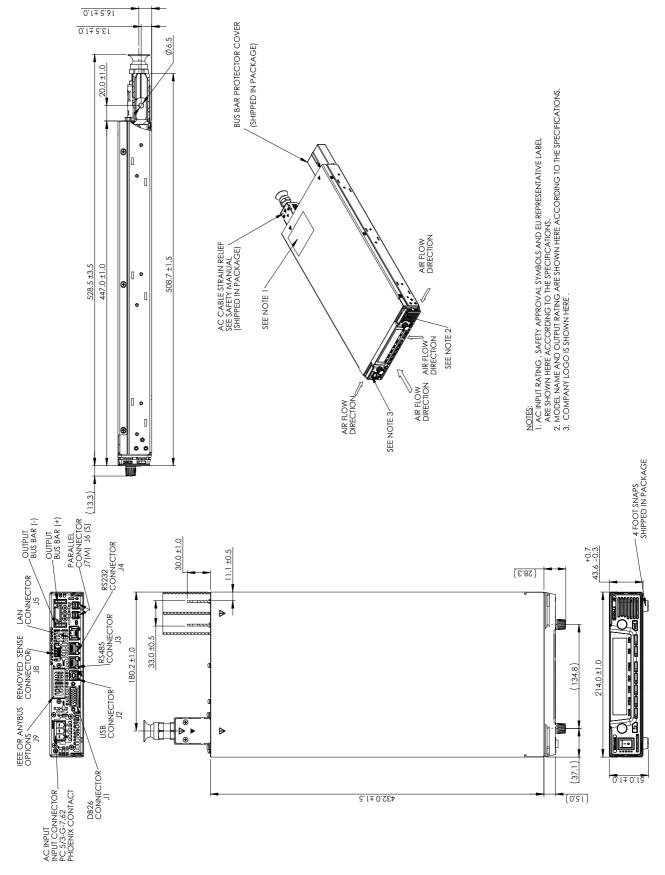
Outline Drawing GENESYS™ GH1kW (150V-600V)



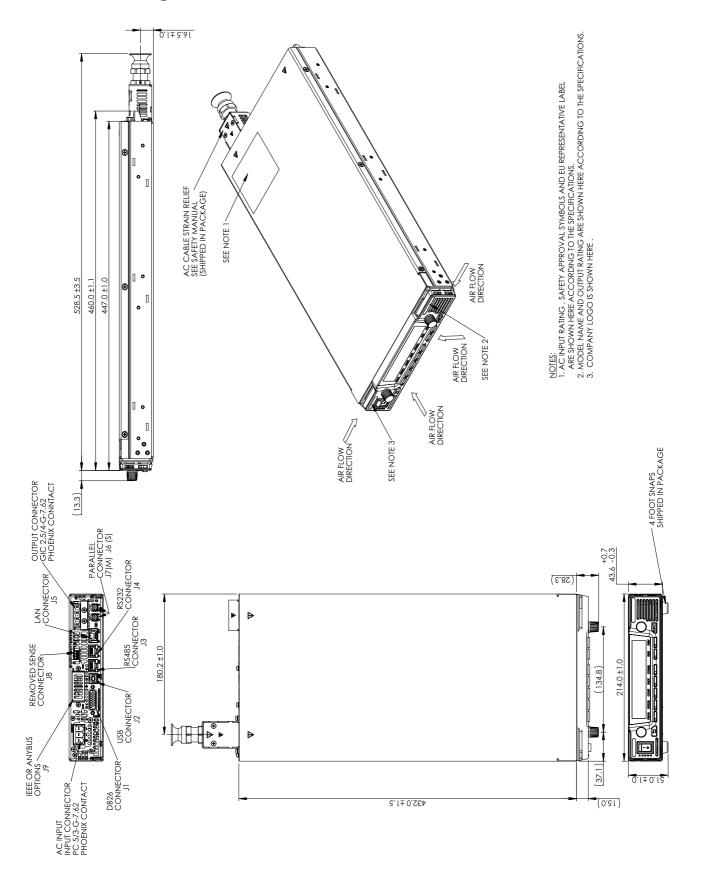
Outline Drawing GENESYS™ GHB1kW



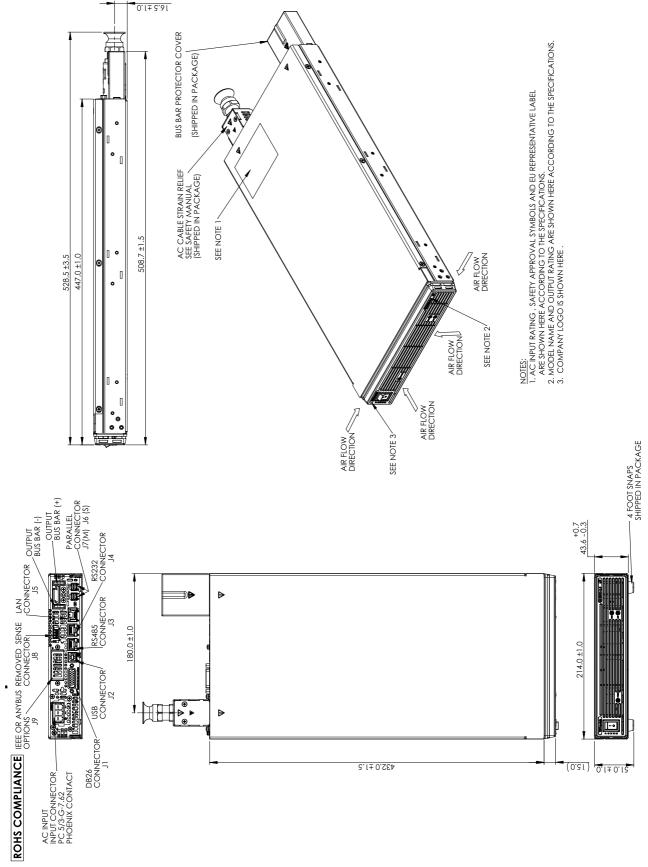
Outline Drawing GENESYS™ GH1.5kW (10V-100V)



Outline Drawing GENESYS™ GH1.5kW (150V-600V)



Outline Drawing GENESYS™ GHB1.5kW















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