

Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service



GENESYS GH1kW/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





Trusted • Innovative • Reliable

The **G***E***NESYS**[™] 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
- TDK·Lambda

- 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

G*E***NESYS**[™] 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).

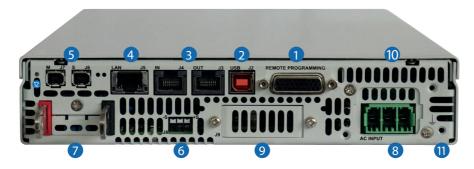
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

GH1kW/1.5kW Front Panel Description



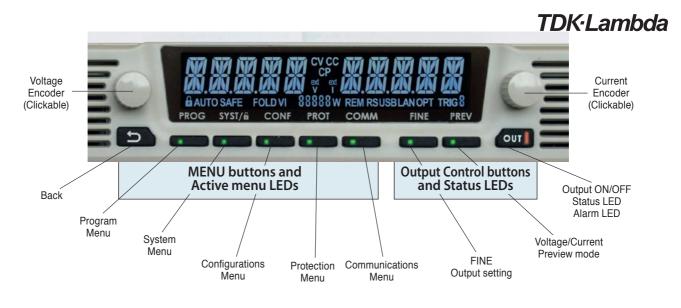
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GH1kW/1.5kW Rear Panel Description

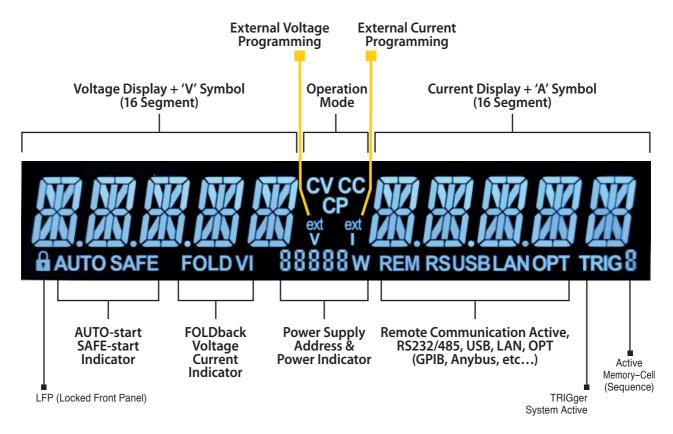


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

G*E*NESYS[™] **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.

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 4 units

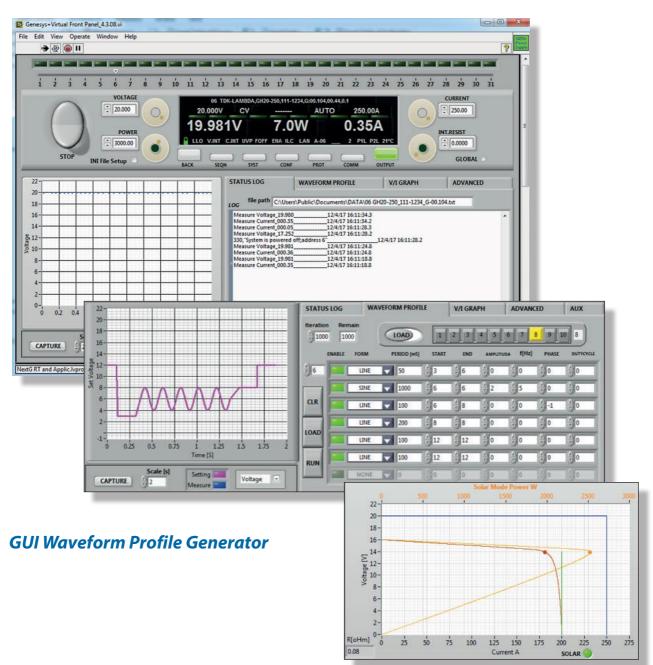
Graphical User Interface

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)

TDK·Lambda

- 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

GH	10	- 150 -	·		
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)	(0~150A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Pane	I			J - Japan	P - Bus Parralleling Cable
AC Inputs (All N	lodels)			C - China	
1Ø, 85 ~ 265Vac				I - Middle East	
Interface Optio	ons (Factory	installed)	P/N		
LAN (LXI 1.5 complia	ant with Multi-Di	rop capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - k	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
. 0		lti-Drop capability installed) IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

Models 1kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
GH10-100	0~10V	0~100	1000	GH80-12.5	0~80V	0~12.5	1000
GH20-50	0~20V	0~50	1000	GH100-10	0~100V	0~10	1000
GH30-34	0~30V	0~34	1020	GH150-7	0~150V	0~7	1050
GH40-25	0~40V	0~25	1000	GH300-3.5	0~300V	0~3.5	1050
GH60-17	0~60V	0~17	1020	GH600-1.7	0~600V	0~1.7	1020

Models 1.5kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500	GH80-19	0~80V	0~19	1520
GH20-75	0~20V	0~75	1500	GH100-15	0~100V	0~15	1500
GH30-50	0~30V	0~50	1500	GH150-10	0~150V	0~10	1500
GH40-38	0~40V	0~38	1520	GH300-5	0~300V	0~5	1500
GH60-25	0~60V	0~25	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

		611	10.100	20.50	20.24	40.25	60.17	00.12.5	100.10		<u>Klar</u>		
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) 2.Rated output current (*2)		V A	10	20 50	30 34	40 25	60 17	80 12.5	100 10	150	300 3.5	600 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)					3Hz,Single Pha		00	00	100	150	500	000	
2. Maximum Input current at 100	% load (100/200)	A	12.5/6.5	111111111111111111111111111111111111111	SH2,SHIgleTha	30							
3.Power Factor (Typ)				0.98 @ 200Va	c, rated output	power.							
4.Efficiency at 100 Vac/200Vac, ra	ted 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			1		1	1		
2.Max. Load regulation (*7)				output voltage									
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	200	500	
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	20	20	50	100	
5.Temperature coefficient		PPM/°C	50PPM/°C fror	n rated output	voltage, followi	ing 30 minutes	warm-up.						
6.Temperature stability			0.01% of rated	Vout over 8hrs	interval follow	ing 30 minutes	warm-up. Cons	tant line, load &	temp.				
7. Warm-up drift							tes following po						
8.Remote sense compensation/w	ire (*10)	V	2	2	5	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)		mS	35	35	35	35	35	35	40	50	100	100	
	Full load (*12)	mS	30	30	60	60	60	60	80	120	220	220	
10.Down-prog.response time:	No load (*12)	mS	500	700	900	1200	1500	1700	2000	2500	3300	3500	
11.Transient response time		mS	Time for outpu	it voltage to re	cover within 0.5	5% of its rated o	output for a load	d change 10~90	% of rated out	put current. Ou	tput set-point:	10~100%,	
					tor 10V models	. Less than 1m	5, for models up	to and includir	ng 100V. 2mS f	or models abov	re 100V.		
12.Start up delay		Sec	Less than 6 Sec										
13.Hold-up time		mS	20ms typical, i	ated output po	ower								
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	t. +5mA								
3.Ripple r.m.s. @ rated voltage. B.	N 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5	
5.Temperature coefficient		PPM/°C	10V~100V 1	00PPM/°C fron	n rated output o	current, followi	ng 30 minutes v	varm-up.					
s.iemperature coerricient		FFIVI/ C	150V~600V 7	0PPM/ºC from	rated output cu	urrent, followin	g 30 minutes w	arm-up.					
6.Temperature stability			0.02% of rated lout 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.										
. wann-up unit			150V~600V: Le	ss than +/-0.15	% of rated outp	out current over	r 30 minutes fol	lowing power o	n.				
ANALOG PROGRAMMING AND N	ONITORING (ISOLATED	FROM T	HE OUTPUT)										
1.Vout voltage programming				or 0~10V, user	selectable. Acc	uracy and linea	arity: +/-0.15% o	f rated Vout.					
2.lout voltage programming (*14	.)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.										
3.Vout resistor programming								0.5% of rated V	out.				
4.lout resistor programming (*14)							0.5% of rated lo					
5.Output voltage monitor					e. Accuracy: +/-								
6.Output current monitor (*14)					e. Accuracy: +/-								
SIGNALS AND CONTROLS (ISOLA		T)					-						
		1)	Dowor cumply		. On on collecto								
1. Power supply OK #1 signal 2. CV/CC signal			Power suppry	Sulput monito		v Output On C	n Output Off	Off Maximum)	altage 201/ M	avimum Cink Ci	urront: 10m A		
5			CV/CC Monito	Opon collecte	· · ·		· · ·	Off. Maximum V	-		urrent: 10mA.		
3. LOCAL/REMOTE Analog control					or. CC mode: On	. CV mode: Off	. Maximum Volt	age: 30V, Maxin	num Sink Curre	ent: 10mA.			
2			Enable/Disabl	e analog progra	or. CC mode: On amming contro	n. CV mode: Off I by electrical s	. Maximum Volt ignal or dry con	age: 30V, Maxin tact. Remote: 0	num Sink Curre ~0.6V or short.	ent: 10mA. . Local: 2~30V o	r open.		
4. LOCAL/REMOTE Analog signal	l		Enable/Disabl analog progra	e analog progra mming control	or. CC mode: On amming contro monitor signal.	n. CV mode: Off I by electrical s Open collector	. Maximum Volt ignal or dry con Remote: On. Lo	age: 30V, Maxin tact. Remote: 0 cal: Off. Maximu	num Sink Curre ~0.6V or short. um Voltage: 30\	ent: 10mA. . Local: 2~30V o V, Maximum Sin			
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	I		Enable/Disabl analog progra Enable/Disabl	e analog progra mming control e PS output by	or. CC mode: On amming contro monitor signal electrical signal	n. CV mode: Off I by electrical s Open collector I or dry contact	Maximum Volt ignal or dry con Remote: On. Lo . 0~0.6V or sho	age: 30V, Maxin tact. Remote: 0 cal: Off. Maximu rt, 2~30V or ope	num Sink Curre ~0.6V or short. um Voltage: 30 n. User selecta	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic.	r open.		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	 	 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl	e analog progra mming control e PS output by e PS output by	or. CC mode: On amming contro monitor signal. electrical signal electrical signal	n. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact	Maximum Volt ignal or dry con Remote: On. Lo . 0~0.6V or sho . Remote: 0~0.6	age: 30V, Maxin tact. Remote: 0 cal: Off. Maximu rt, 2~30V or ope 5V or short. Loca	num Sink Curre ~0.6V or short. um Voltage: 30V n. User selecta al: 2~30V or op	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en.	r open.	٨.	
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai	e analog progra mming control e PS output by e PS output by n programmab	or, CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi	h. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2	Maximum Volt ignal or dry con Remote: On. Lo . 0~0.6V or sho . Remote: 0~0.6 25V, Maximum s	age: 30V, Maxin tact. Remote: 0 cal: Off. Maximu rt, 2~30V or ope 5V or short. Loca ink current 100	num Sink Curre ~0.6V or short. um Voltage: 30V n. User selecta al: 2~30V or op mA (Shunted b	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open. k Current: 10mA		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo	e analog progra mming control e PS output by e PS output by n programmab w level input v	or. CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi voltage = 0.8V	. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2 //Minimum hie	Maximum Volt ignal or dry con Remote: On. Lc . 0~0.6V or sho . Remote: 0~0.6 25V, Maximum s gh level input	age: 30V, Maxin tact. Remote: 0 cal: Off. Maximu rt, 2~30V or ope 5V or short. Loca ink current 100	num Sink Curre ~0.6V or short. Im Voltage: 30\ n. User selecta al: 2~30V or op mA (Shunted b /, Maximum h	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open.		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign		 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo trigger: tw=1	e analog progra mming control e PS output by e PS output by n programmab w level input Ous minimum	or. CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi voltage = 0.8V	. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2 //Minimum hig iximum, Min co	Maximum Volt ignal or dry com Remote: On. Lc . 0~0.6V or sho . Remote: 0~0.6 25V, Maximum s gh level input	age: 30V, Maxin itact. Remote: 0 ical: Off. Maximu rt, 2~30V or ope iV or short. Loca ink current 100 voltage = 2.5V	num Sink Curre ~0.6V or short. Im Voltage: 30\ n. User selecta al: 2~30V or op mA (Shunted b /, Maximum h	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open. k Current: 10mA		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal		 	Enable/Disabl analog prograi Enable/Disabl Enable/Disabl Two open drai Maximum loo trigger: tw=1 By electrical Vi	e analog progra mming control e PS output by e PS output by n programmab w level input Ous minimum	or, CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi voltage = 0.8V n. Tr,Tf=1us Ma 2~30V or dry co	. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2 //Minimum hig iximum, Min co	Maximum Volt ignal or dry com Remote: On. Lc . 0~0.6V or sho . Remote: 0~0.6 25V, Maximum s gh level input	age: 30V, Maxin itact. Remote: 0 ical: Off. Maximu rt, 2~30V or ope iV or short. Loca ink current 100 voltage = 2.5V	num Sink Curre ~0.6V or short. Im Voltage: 30\ n. User selecta al: 2~30V or op mA (Shunted b /, Maximum h	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open. k Current: 10mA		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		 	Enable/Disabl analog prograi Enable/Disabl Enable/Disabl Two open drai Maximum loo trigger: tw=1 By electrical Vi	e analog progra mming control e PS output by e PS output by n programmab w level input Ous minimum oltage: 0~0.6V/	or, CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi voltage = 0.8V n. Tr,Tf=1us Ma 2~30V or dry co	. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2 //Minimum hig iximum, Min co	Maximum Volt ignal or dry com Remote: On. Lc . 0~0.6V or sho . Remote: 0~0.6 25V, Maximum s gh level input	age: 30V, Maxin itact. Remote: 0 ical: Off. Maximu rt, 2~30V or ope iV or short. Loca ink current 100 voltage = 2.5V	num Sink Curre ~0.6V or short. Im Voltage: 30\ n. User selecta al: 2~30V or op mA (Shunted b /, Maximum h	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open. k Current: 10mA		
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo trigger: tw=1 By electrical Vi 4~5V=OK, 0V (e analog progra mming control e PS output by e PS output by n programmab w level input v Ous minimum oltage: 0~0.6V/ 500ohm imped	pr. CC mode: On amming contro monitor signal. electrical signal electrical signal elestical signal elestical signals. Maxi voltage = 0.8V h. Tr.Tf=1us Ma 2~30V or dry cc lance)=Fail	b. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact imum voltage 2 (,Minimum high iximum, Min contact.	Maximum Volt ignal or dry con Remote: On. Lo . 0~0.6V or sho . Remote: 0~0.6 SV, Maximum 3 ph level input ielay between	age: 30V, Maxin tact. Remote: 0 ical: Off. Maximu rt, 2~30V or ope iV or short. Locc ink current 100 voltage = 2.5\ i 2 pulses 1ms.	num Sink Curre ~0.6V or short. Im Voltage: 30\ n. User selecta al: 2~30V or op mA (Shunted b /, Maximum h	ent: 10mA. . Local: 2~30V o V, Maximum Sin able logic. en. by 27V zener)	r open. k Current: 10mA		
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LOCAL/REMOTE Analog signal LOCAL/REMOTE Analog signal ENABLE/DISABLE signal INTERLOCK (ILC) control // Programmed signals TRIGGER IN / TRIGGER OUT signal DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNTIONS AND FEATURES Parallel operation S. Deisy chain Constant power control S. Output resistance control S. Output resistance control S. Slew rate control Arbitrary waveforms PROGRAMMING AND READBAR S2321/485, Optional IEEE (*16 I.Vout programming accuracy (*1 I. Day and the control S. Output regramming accuracy (*1 I. Arbitrary maning accuracy (*1 I. Series	CK (USB, LAN,) Interfaces) 5)	 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical Vi 4~5V=OK, 0V (i Possible. Up to Possible. Two i Power supplie Limits the out Emulates serie Programmabl ports or the fro Profiles of up t 10 0.05% of rated 0.1% of actual	e analog programming control e PS output by e PS output by n programmab w level input 1 Ous minimum oltage: 0~0.6V/ 500ohm impec 4 identical units. s can be conne but power to a s resistance. Ref e Output rise ar on to a steps car 20 output voltage	or, CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal electrical signal electrical signal electrical signal control signal co	A. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 ("Minimum hig ximum, Min contact. we mode. Refer tion manual. nain to synchro value. Program I ~1000mΩ. Pi lew rate. Program memory cells. 40	Maximum Volt ignal or dry com Remote: On. Lc. . 0~0.6V or shou Provide the second second SV, Maximum s gh level input lelay between r to instruction i nize their turn ming via the ccc rogramming via amming range: Activation by ccc 60	age: 30V, Maxin tact. Remote: 0 .cal: Off. Maximu t, 2~30V or ope iV or short. Loca iNk current 100 voltage = 2.5 1 2 pulses 1ms. manual. on and turn-off. mmunication p a the communic 0.0001~999.99 V	num Sink Curre ~0.6V or short. Im Voltage: 301 In: User selecta al: 2~30V or op mA (Shunted b /, Maximum h /, Maximum h /maximum h /	ent: 10mA. . Local: 2~30V o V, Maximum Sin ible logic. en. yy 27V zener) iigh level inpu nt panel. the front panel. nSec. Programm on ports or by th	r open. k Current: 10mA it = 5V positive it = 5V positive ining via the com he front panel.	e edge	
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LOCAL/REMOTE Analog signal LOCAL/REMOTE Analog signal ENABLE/DISABLE signal ENABLE/DISABLE signal INTERLOCK (ILC) control Triggrammed signals TRIGGER IN / TRIGGER OUT signal DAISY_IN/SO control signal DAISY_OUT/PS_OK #2 signal UNCTIONS AND FEATURES Jearallel operation Solaisy chain Constant power control Solay chain Constant power control Solay chain Aconstant power control Aconstant po	CK (USB, LAN,) Interfaces) 5)	 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical Vi 4~5V=OK, 0V (i Possible. Up to Possible. Up to Possible. Two i Power supplie Limits the out Emulates serie Programmabl Dorts or the fr Profiles of up t 10 0.05% of rated 0.0025% of rat	a analog programming control PS output by PS output by PS output by PS output by w level input to output output output 4 identical units. S can be conner but power to a s resistance. Re o Output rise ar o 100 steps car 20 output voltage output voltage ou	or. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal electrical signal electrical signal electrical signal control and signal control and signal control and signal control and signal models and signal control and	A. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 ("Minimum hig ximum, Min contact. we mode. Refer tion manual. nain to synchro value. Program I ~1000mΩ. Pi lew rate. Program memory cells. 40	Maximum Volt ignal or dry com Remote: On. Lc. . 0~0.6V or shou Provide the second second SV, Maximum s gh level input lelay between r to instruction i nize their turn ming via the ccc rogramming via amming range: Activation by ccc 60	age: 30V, Maxin tact. Remote: 0 .cal: Off. Maximu t, 2~30V or ope iV or short. Loca iNk current 100 voltage = 2.5 1 2 pulses 1ms. manual. on and turn-off. mmunication p a the communic 0.0001~999.99 V	num Sink Curre ~0.6V or short. Im Voltage: 301 In: User selecta al: 2~30V or op mA (Shunted b /, Maximum h /, Maximum h /maximum h /	ent: 10mA. . Local: 2~30V o V, Maximum Sin ible logic. en. yy 27V zener) iigh level inpu nt panel. the front panel. nSec. Programm on ports or by th	r open. k Current: 10mA it = 5V positive it = 5V positive ining via the com he front panel.	e edge	
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 5. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal 10. PARIBLE operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 5. Solew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE (*16 1. Jout programming accuracy (*1 3. Vout programming resolution 4. Jout programming resolution 5. Jout programming resolution 4. Jout programming resolution 5. Jout programming	CK (USB, LAN,) Interfaces) 5)	 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical Vi 4~5V=OK, 0V (V Possible. Up to Possible. Two i Power supplie Limits the outp Emulates serie Programmabl ports or the fr Profiles of up t 10 0.05% of rated 0.0025% of rated 0.0025% of rated	e analog programming control P5 output by P5 output by P5 output by P5 output by n programmab w level input 1 Ous minimum platage: 0~-0.6// 5000hm impect 4 identical unit dentical units. s can be conne but power to a s resistance. Re e Output rise arm nt panel. o 100 steps car 20 Output voltage output voltaged d output voltaged	or. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal electrical signal electrical signal electrical signal control and signal control and signal control and signal control and signal models and signal control and	A. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 ("Minimum hig ximum, Min contact. we mode. Refer tion manual. nain to synchro value. Program I ~1000mΩ. Pi lew rate. Program memory cells. 40	Maximum Volt ignal or dry com Remote: On. Lc. . 0~0.6V or shou Provide the second second SV, Maximum s gh level input lelay between r to instruction i nize their turn ming via the ccc rogramming via amming range: Activation by ccc 60	age: 30V, Maxin tact. Remote: 0 .cal: Off. Maximu t, 2~30V or ope iV or short. Loca iNk current 100 voltage = 2.5 1 2 pulses 1ms. manual. on and turn-off. mmunication p a the communic 0.0001~999.99 V	num Sink Curre ~0.6V or short. Im Voltage: 301 In: User selecta al: 2~30V or op mA (Shunted b /, Maximum h /, Maximum h /maximum h /	ent: 10mA. . Local: 2~30V o V, Maximum Sin ible logic. en. yy 27V zener) iigh level inpu nt panel. the front panel. nSec. Programm on ports or by th	r open. k Current: 10mA it = 5V positive it = 5V positive ining via the com he front panel.	e edge	
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ACK (USB, LAN, b) Interfaces) 5) 4)	 	Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical Vi 4~5V=OK, 0V (i Possible. Up to Possible. Up to Possible. Two i Power supplie Limits the out Emulates serie Programmabl Dorts or the fr Profiles of up t 10 0.05% of rated 0.0025% of rat	e analog programming control P5 output by P5 output by P5 output by P5 output by n programmab w level input 1 Ous minimum platage: 0~-0.6// 5000hm impect 4 identical unit dentical units. s can be conne but power to a s resistance. Re e Output rise arm nt panel. o 100 steps car 20 Output voltage output voltaged d output voltaged	or. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal electrical signal electrical signal electrical signal control and signal control and signal control and signal control and signal models and signal control and	A. CV mode: Off I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 ("Minimum hig ximum, Min contact. we mode. Refer tion manual. nain to synchro value. Program I ~1000mΩ. Pi lew rate. Program memory cells. 40	Maximum Volt ignal or dry com Remote: On. Lc. . 0~0.6V or shou Provide the second second SV, Maximum s gh level input lelay between r to instruction i nize their turn ming via the ccc rogramming via amming range: Activation by ccc 60	age: 30V, Maxin tact. Remote: 0 .cal: Off. Maximu t, 2~30V or ope iV or short. Loca iNk current 100 voltage = 2.5 1 2 pulses 1ms. manual. on and turn-off. mmunication p a the communic 0.0001~999.99 V	num Sink Curre ~0.6V or short. Im Voltage: 301 In: User selecta al: 2~30V or op mA (Shunted b /, Maximum h /, Maximum h /maximum h /	ent: 10mA. . Local: 2~30V o V, Maximum Sin ible logic. en. yy 27V zener) iigh level inpu nt panel. the front panel. nSec. Programm on ports or by th	r open. k Current: 10mA it = 5V positive it = 5V positive ining via the com he front panel.	e edge	

GENESYS[™] GH1.5kW SERIES SPECIFICATIONS

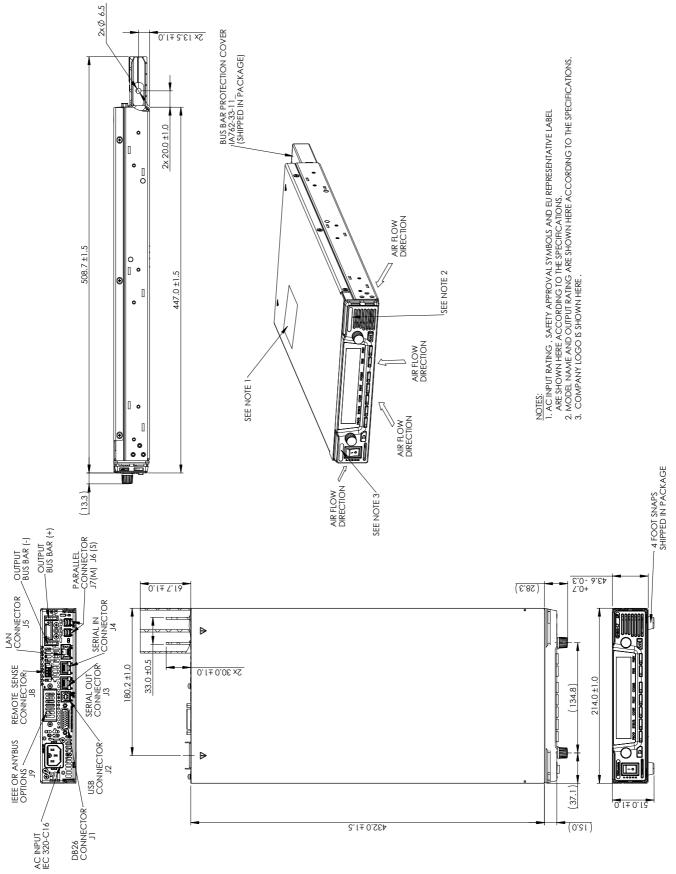
OUTPUT RATING	GH	10-150	20-75	30-50	40-38	60-25	80-19	100-15	150-10	300-5	600-2.6
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	A	150	75	50	38	25	19	15	10	5	2.6
3.Rated output power	W	1500	1500	1500	1520	1500	1520	1500	1500	1500	1560
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)		85~265Vac, co	ntinuous, 47~6	3Hz,Single Pha	se						
2. Maximum Input current at 100% load (100/200)	A	18.5/9									
3.Power Factor (Typ)			0.98 @ 200Va	c, 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									
	V	10	20	20	10			100	150	200	600
CONSTANT VOLTAGE MODE	_	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			l output voltage			_					
2.Max. Load regulation (*7)			output voltage	1							
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	50PPM/°C fror	m rated output	voltage, followi	ing 30 minutes	warm-up.					
6.Temperature stability		0.01% of rated	l Vout over 8hrs	interval follow	ing 30 minutes	warm-up. Cons	tant line, load &	& temp.			
7. Warm-up drift		Less than 0.01	% of rated outp	out voltage+2m	V over 30 minu	tes following po	ower 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	20	30	30	40
							50				
10.Down-prog.response time: Full load (*12)	mS	20	20	20	30	30		50	60	70	80
No load (*12)	mS	300	500	600	900	1200	1300	1700	2200	2700	3000
11.Transient response time	mS	Time for outp	ut voltage to re	cover within 0.5	5% of its rated	output for a load	d change 10~90)% of rated ou	tput current. O	utput set-point	: 10~100%,
	_			n models up to	anu inciuding	100V. 2mS, for n		υυν.			
12.Start up delay	Sec	Less than 6 Se									
13.Hold-up time	mS	20ms typical,	rated output po	ower							
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			output current						100	500	
2.Max. Load regulation (*9)			doutput curren								
	-		1 .	1	<60	<50	<20	<10	<10	< 9	-5
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C					ing 30 minutes v ig 30 minutes w					
6.Temperature stability		0.01% of rated	lout over 8hrs.	interval follow	ing 30 minutes	warm-up. Cons	tant line, load &				
7. Warm-up drift						nt over 30 minu r 30 minutes fol	÷.				
		150V~000V. Le		170 OF Taleu Oulp	Jui current ove	1 50 minutes for	iowing power c	л .			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5\	/ or 0~10V, user	selectable. Acc	uracy and line	arity: +/-0.15% c	f rated Vout.				
2.lout voltage programming (*14)		0~100%. 0~5	/ or 0~10V. user	selectable. Acc	uracy and line	arity: +/-0.4% of	rated lout.				
3.Vout resistor programming						and linearity: +/-		/out			
4.lout resistor programming (*14)						and linearity: +/-					
5.Output voltage monitor				le. Accuracy: +/-			0.570 01 1812010	Jut.			
				· · · · ·							
6.Output current monitor (*14)		0~5V or 0~10	, user selectab	le. Accuracy: +/-	-0.5% of rated	lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPO	UT)										
1. Power supply OK #1 signal		Power supply	output monito	r. Open collecto	or. Output On:	On. Output Off:	Off. Maximum \	Voltage: 30V, N	/laximum Sink (Current: 10mA.	
2. CV/CC signal		CV/CC Monito	r. Open collecto	or. CC mode: On	. CV mode: Of	f. Maximum Volt	age: 30V, Maxir	num Sink Curr	ent: 10mA.		
3. LOCAL/REMOTE Analog control						signal or dry cor	-			oropen	
4. LOCAL/REMOTE Analog signal						. Remote: On. Lo					A
										in current. Tom	Π.
5. ENABLE/DISABLE signal						t. 0~0.6V or sho			-	1	
6. INTERLOCK (ILC) control						t. Remote: 0~0.6					
7. Programmed signals						25V, Maximum s					
8. TRIGGER IN / TRIGGER OUT signals						gh level input			high level inp	ut = 5V positiv	/e edge
-						delay betweer	i∠ puises ims	•			
9. DAISY_IN/SO control signal				2~30V or dry co	ontact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0V	(500ohm imped	dance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation		Possible Up to	o 4 identical uni	its in Master/Cla	we mode Refe	r to instruction	manual				
•		· · ·		Refer to instruc		. to instruction					
2. Series operation						alas de chi i					
3. Daisy chain				,		nize their turn-					
4. Constant power control					-	nming via the co					
5. Output resistance control						rogramming via					
				nd Output fall sl	lew rate. Progr	amming range:	0.0001~999.99	V/mSec. or A/r	mSec. Program	ming via the co	mmunication
6. Slew rate control		ports or the fr		he stored in 4	memory cells	Activation by co	mmand via the	communicati	ion ports or by	the front nanel	
			co roo steps car	· SC Storeu III 4	citiory cells.			·		sile none parter	
7. Arbitrary waveforms											
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)	v	10	20	30	40	60	80	100	150	300	600
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)		10	20 l output voltage		40	60	80	100	150	300	600
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15)	v	10 0.05% of rated	l l output voltage				80	100	150	300	600
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	10 0.05% of ratec 0.1% of actual	l l output voltage	e +0.2% of rated			80	100	150	300	600
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	10 0.05% of ratec 0.1% of actual 0.002% of rate	l output voltage output current ed output voltage	e +0.2% of rated ge			80	100	150	300	600
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 	10 0.05% of ratec 0.1% of actual 0.002% of rate 0.0025% of rat	d output voltage output current ed output voltage ted output current	e +0.2% of rated ge ent			80	100	150	300	600
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V 	10 0.05% of ratec 0.1% of actual 0.002% of rate 0.0025% of rate	d output voltage output current ed output voltage ted output current d output voltage	l e ++0.2% of rated ge ent je			80	100	150	300	600
2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*14)	V 	10 0.05% of ratec 0.1% of actual 0.002% of rate 0.0025% of rate 0.05% of rated	d output voltag output current ed output voltag ted output voltag d output voltag output current	e +0.2% of rated ge ent le	output current	· · · · · · · · · · · · · · · · · · ·	 				
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1./out programming accuracy (*15) 2.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V 	10 0.05% of ratec 0.1% of actual 0.002% of rate 0.0025% of rate	d output voltage output current ed output voltage ted output current d output voltage	l e ++0.2% of rated ge ent je			80 0.002% 0.006%	0.011% 0.007%	150 0.007% 0.015%	300 0.004% 0.003%	600 0.002% 0.004 [°] %

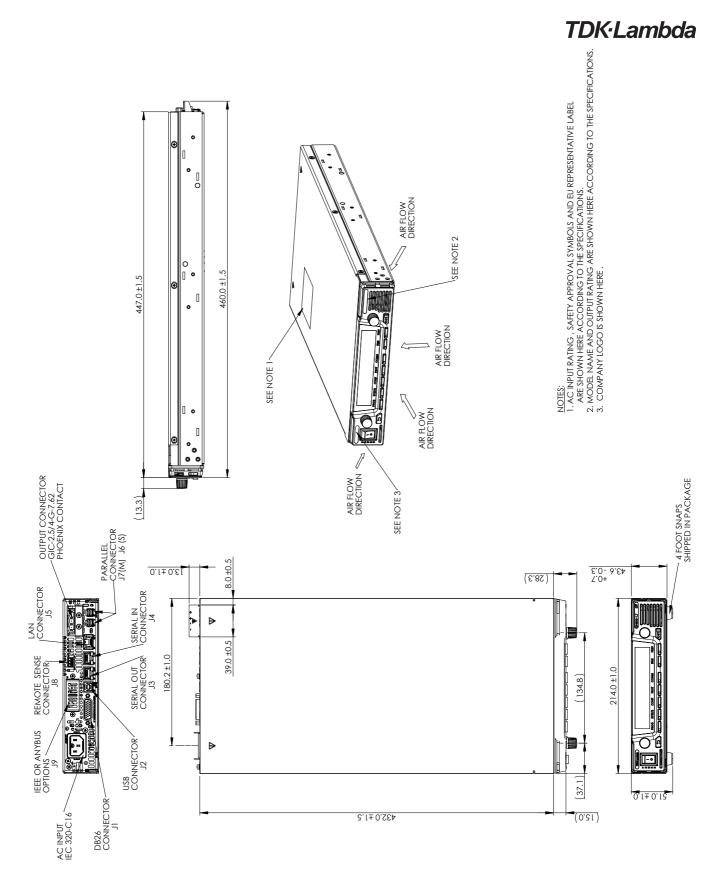
GENESYS[™] GH1kW/1.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-d User presetabl	Dutput shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. Iser presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear part of the minication of the second state of the second state of the second								
2.Over-voltage protection (OV	2)		Output shut-d	own. Reset by	AC input recyc	le in autostart	mode, by OUTF	UT button, by	rear panel or by	communicatio	NLa	HD
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
I. Over-voltage programming a	accuracy		+/-1% of rated	output voltag	e							
5.Output under voltage limit (L	JVL)		Prevents from	adjusting Vou	t below limit. D	oes not apply	in analog progi	amming. Prese	t by front pane	l or communica	ition port.	
Over temperature protection			Shuts down th	e output. Auto	recovery by au	utostart mode						
7. Output under voltage limit (l	JVL)		Prevents adjus	tment of Vout	below limit.							
8. Output under voltage protec	ction (UVP)		Prevents adjus Power Switch,	tment of Vout by OUTPUT bu	below limit. P.S itton, by rear p	5 output turns anel or by com	Off during und munication.	er voltage conc	lition. Reset by	AC input recycl	e in autostart	node, by
RONT PANEL												
.Control functions			Multiple optio	ns with 2 Enco	ders							
			Vout/lout/Pow								-	
			OVP/UVL/UVP	manual adjust								
			Protection Fun	ctions - OVP, L	JVL,UVP, Foldba	ack, OCL, ENA,	ILC					
							RS485,USB or O	otional commu	nication interfa	ce.		
			Output ON/OF	F. Front Panel	Lock.							
			Communicatio	n Functions - 1	Selection of Ba	ud Rate, Addre	ess, IP and comr	nunication land	guage.			
							ogramming, 5V/					
							Monitoring 5V/1					
2. Display			Vout: 4 digits, a									
• •			lout: 4 digits, a	ccuracy: 0.2%	of rated output	t current +/-1 d	ount.					
3.Front Panel Buttons Indicatio	ns		OUTPUT ON, A	LARM, PREVIE	W, FINE, COMM	IUNICATION, P	ROTECTION,CO	NFIGURATION,	SYSTEM, SEQU	ENCER.		
4. Front Panel Display Indicatio	ns		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	IS											
1.Operating temperature			0~50°C, 100%	load								
2.Storage temperature			-30~85°C	iouu.								
÷ .												
3.Operating humidity	%	20~90% RH (no condensation).										
4.Storage humidity	%	10~95% RH (no condensation). Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).										
5.Altitude			Operating: 100	00ft (3000m),	output current	derating 2%/1	00m or Ta derat	ting 1°C/100m a	bove 2000m. N	on operating: 4	0000ft (12000	m).
MECHANICAL												
1.Cooling			Forced air cool	ing by interna	I fans. Air flow	direction: from	Front panel to	power supply	rear			
2.Weight		kg	Less than 3.5kg	5,			interio punci to	porter suppry	cui			
		ĸġ			thout buchor	c and buchas	(C COVOR)					
3.Dimensions (WxHxD) 4.Vibration		mm	W: 214, H: 43.6, D: 432 (Without busbars and busbars cover), W: 214, H: 43.6, D: 493 (Including busbars and busbars cover) (Refer to Outline drawing). MIL-8106, method 514.6, Procedure I, test condition Annex C - 2.1.3.1									
			Less than 20G, half sine, 11mSec. Unit is unpacked.									
5.Shock			Less than 200, han sine, i finset, onit is unpacked.									
SAFETY/EMC												
I.Applicable standards:	Safety GH1kW/1.5kW		UL61010-1, CS/	A22.2 No. 6101	0-1, IEC61010-1	, EN61010-1.						
			Vout≤50V Mod	lels: Output. J1	, J2, J3, J4, J5. J	6, J7, J8 (sense) & J9 (commun	ication options) are Non Hazar	dous.		
1.1. Interface classification	GH1kW/1.5kW						s, J1, J2, J3, J4, J5				Hazardous.	
							, J5, J6, J7 & J9 (
			1			e,, J1, J2, J3, J4) פנא זו, סו, כו,	communicatio	1 options): 4242	vuc min,		
			Input - Ground			o ())						
							2, J3, J4, J5, J6, J7		lication options): 4242VDC 1mi	n,	
			· ·				ation options):					
1.2 Withstand voltage	GH1kW/1.5kW		1 1 1				nd: 2835VDC 1r					
							J2, J3, J4, J5, J6,			ons): 4242VDC	1min.	
			Output & J8 (se	ense) - J1, J2, J3	, J4, J5, J6, J7 &	J9 (communic	ation options):	1275VDC 1min.				
			Output & J8 (se	ense) - Ground	: 2500VDC 1mi	n.						
			Input - Ground									
	1											
1.3 Insulation resistance				5°C.70%RH ∩	utput to Group	nd 500VDC						
					utput to Groun		FCC Part 15. A	VCCI-A				
2.Conducted emmision			IEC/EN61204-3	Industrial env	ironment, Ann	ex H table H.1	, FCC Part 15-A,					
1.3 Insulation resistance 2.Conducted emmision 3.Radiated emission 4. EMC compliance	EMC (*4)		IEC/EN61204-3	Industrial env Industrial env	ironment, Ann ironment, Ann	ex H table H.1	, FCC Part 15-A, and H4, FCC Pa		4			

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C
NOTES:
'''. Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
'''. Minimum current is guaranteed to maximum 0.2% of rated output current.
'''. Minimum current is guaranteed to maximum 0.2% of rated output current.
'''. Minimum current is guaranteed to maximum 0.2% of rated output current.
'''. Minimum current is guaranteed to maximum 0.2% of rated output current.
'''. Minimum current is guaranteed to maximum 0.2% of rated output current.
'''. Kinimum current is guaranteed to maximum 0.2% of rated output current.
'''. Kinimum current is guaranteed to maximum 0.2% of rated output to be described as 100-240Vac (50/60Hz).
'''. Kisignal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
'''. From No-Load to Full-Load, constant input voltage.
'''. For No-Load to Full-Load, constant input voltage. Measured at the sening point in Remote Sense.
'''. For Ioad voltage change, equal to the unit voltage rating, constant input voltage.
'''. For load voltage change, equal to the unit voltage rating, constant input voltage.
'''. For Ioad voltage change, equal to the unit voltage rating, constant input voltage.
'''. For Ioad voltage change, equal to the unit voltage rating, constant input voltage.
'''. For Ioad voltage change, equal to the unit voltage rating, constant input voltage.
'''. For Ioad voltage on the power supply terminals must not exceed the rated voltage.
'''. For 0.0% to 10% of Rated Output Voltage.
'''. Form 0% to 90% to 10% of Rated Output Voltage.
'''. Form 0% to 90% to 10% of Rated Output Voltage.
'''. Form 0% to 90% to 10% of Rated Output Voltage.
'''. Form 1% to 90% to 10% of Rated Output Voltage.
'''. For Ioad terment programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
'''. Hackmant at the sensing point.
'''. The 25°C, rated output power.
'''. The 25°C, rated output power.

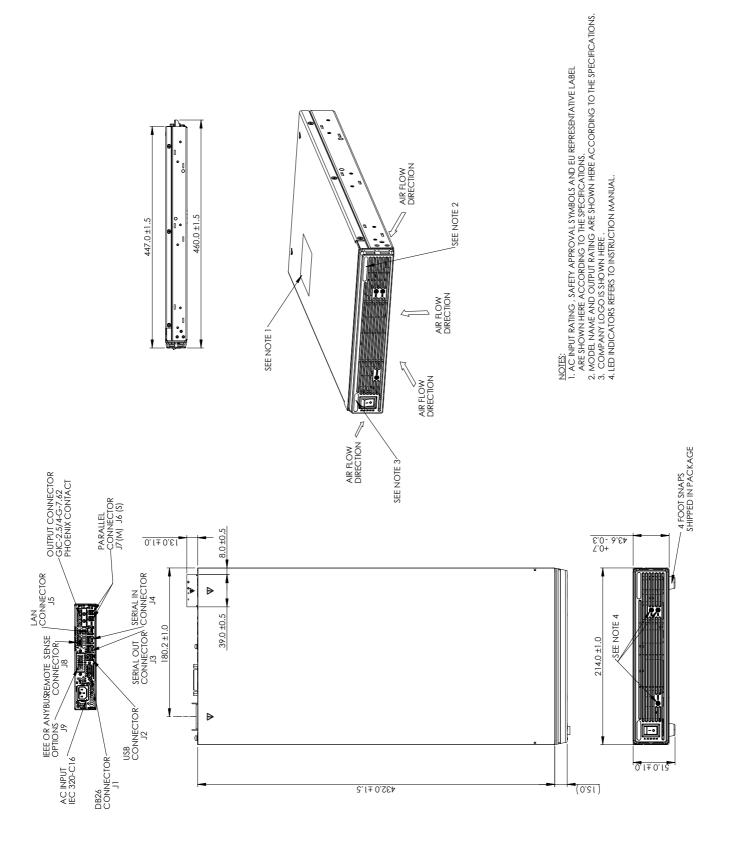
Outline Drawing GENESYS[™] GH1kW (10V-100V)

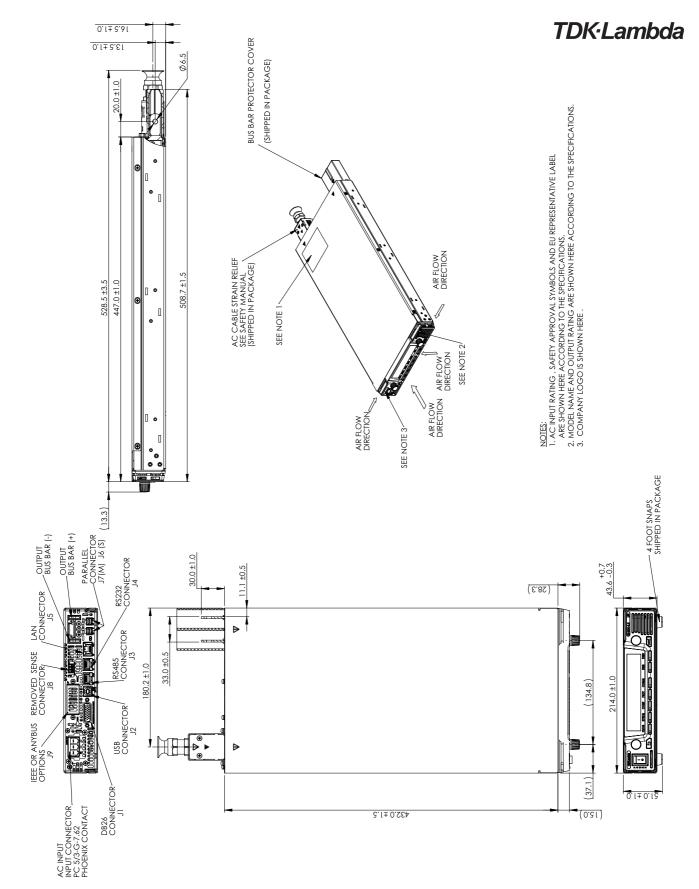




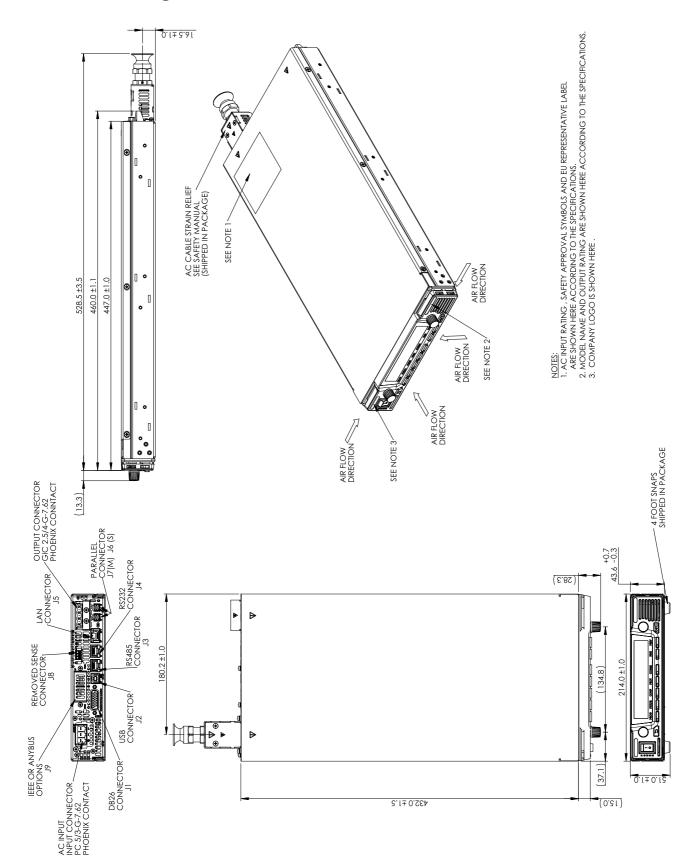
Outline Drawing GENESYS[™] GH1kW (150V-600V)

Outline Drawing GENESYS[™] GHB1kW



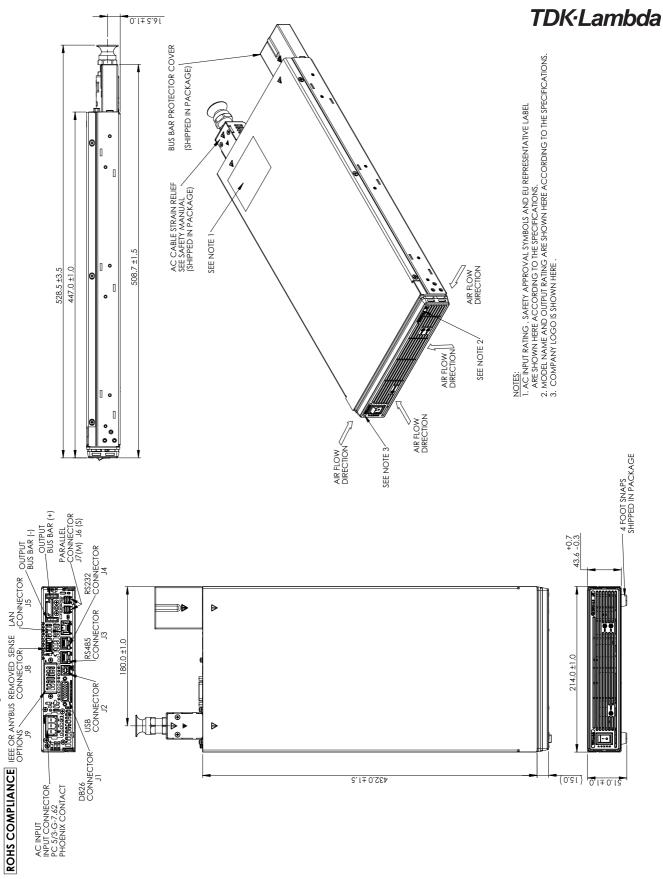


Outline Drawing GENESYS[™] GH1.5kW (10V-100V)



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

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