



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).

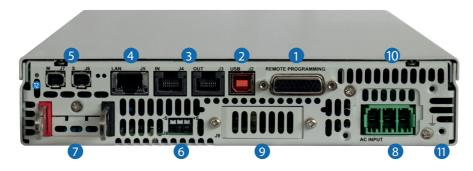
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

GH1kW/1.5kW Front Panel Description



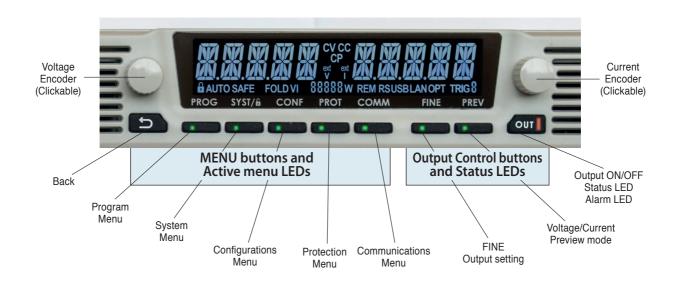
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GH1kW/1.5kW Rear Panel Description

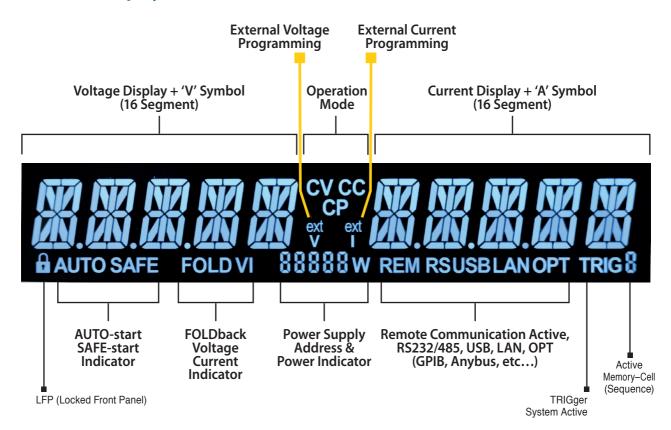


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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



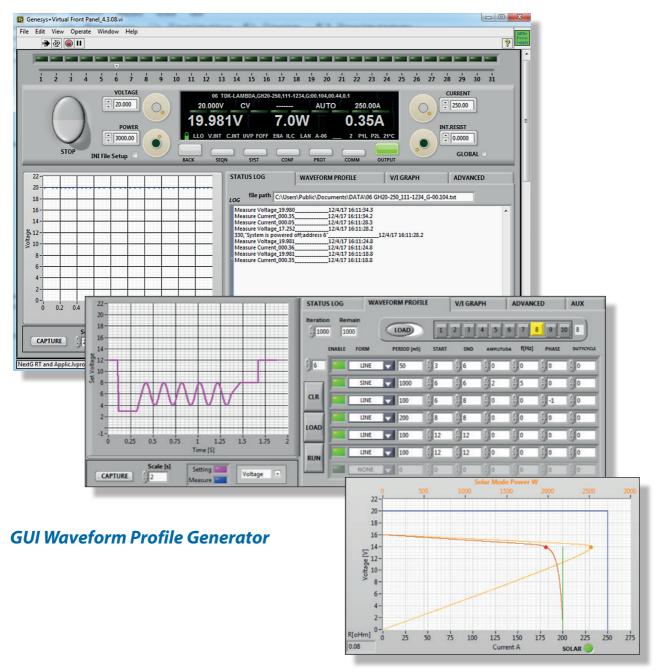


LAN, USB, RS-232, RS-485, IEEE, AnyBus

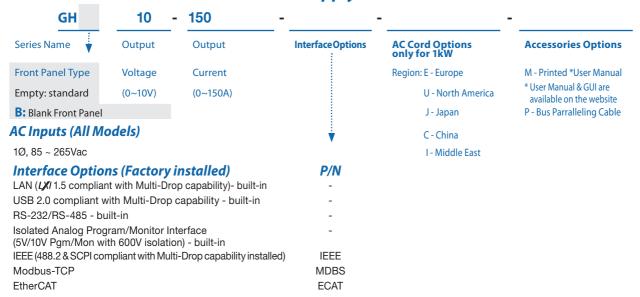
Graphical User Interface

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)
GH10-100	0~10V	0~100	1000
GH20-50	0~20V	0~50	1000
GH30-34	0~30V	0~34	1020
GH40-25	0~40V	0~25	1000
GH60-17	0~60V	0~17	1020

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

Models 1.5kW

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

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

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 23	60	80	100-10	150	300	600
2.Rated output current (*2)	Α	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
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
.Input voltage/freq. (*3)		85~265Vac, co	ntinuous, 47~6	3Hz,Single Pha	se		'				
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3.Power Factor (Typ)				c, rated output							
4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50A									
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.01% of rated	output voltage	9							
.Max. Load regulation (*7)		0.01% of rated	output voltage	e +2mV							
Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	200	500
Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	20	20	50	100
.Temperature coefficient	PPM/°C	50PPM/°C from	n rated output	voltage, followi	ng 30 minutes	warm-up.					
.Temperature stability		0.01% of rated	Vout over 8hrs	interval follow	ing 30 minutes	warm-up. Con	stant line, load &	temp.			
. Warm-up drift				ut voltage+2m							
B.Remote sense compensation/wire (*10)	v	2	2	5	5	5	5	5	5	5	5
.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
0.Down-prog.response time: No load (*12)	mS	500	700	900	1200	1500	1700	2000	2500	3300	3500
							d change 10~90				
1. Transient response time	mS	Local sense. Le	ess than 1.5mS,	for 10V models	. Less than 1m	S, for models up	o to and includir	ng 100V. 2mS f	or models abov	e 100V.	. 5 10070,
2.Start up delay	Sec	Less than 6 Sec									
3.Hold-up time	mS		rated output po	ower							
·		,,	1		40	(0)	60	100	150	200	
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)			output curren								
.Max. Load regulation (*9)			output curren	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			n rated output o rated output cu							
Temperature stability							stant 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.									
ANALOG PROGRAMMING AND MONITORING (ISOLATE)	D FROM T	HE OUTPUT)									
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Vout voltage programming		010004 051/	/ or 0 - 10\/ usor	solostable Ass	uracy and line	rity: 1 / 0.1504 /	of rated Vout				
				selectable. Acc							
lout voltage programming (*14)		0~100%, 0~5V	or 0~10V, user	selectable. Acc	uracy and line	arity: +/-0.4% o	frated lout.	out			
Llout voltage programming (*14) L'Vout resistor programming		0~100%, 0~5V 0~100%, 0~5/	or 0~10V, user 10Kohm full sca	selectable. Acc ale, user selecta	uracy and line ble. Accuracy a	arity: +/-0.4% of and linearity: +/	f rated lout. -0.5% of rated V				
2.lout voltage programming (*14) 2.Vout resistor programming 1.lout resistor programming (*14)		0~100%, 0~5V 0~100%, 0~5/ 0~100%, 0~5/	′ or 0~10V, user 10Kohm full sca 10Kohm full sca	selectable. Acc ale, user selecta ale, user selecta	uracy and line ble. Accuracy a ble. Accuracy a	arity: +/-0.4% of and linearity: +/ and linearity: +/	frated lout.				
2.lout voltage programming (*14) 3.Vout resistor programming 1.lout resistor programming (*14) 5.Output voltage monitor		0~100%, 0~5V 0~100%, 0~5/ 0~100%, 0~5/ 0~5V or 0~10V	or 0~10V, user 10Kohm full sca 10Kohm full sca 1, user selectab	selectable. Acc ale, user selecta ale, user selecta le. Accuracy: +/-	uracy and line ble. Accuracy a ble. Accuracy a ·0.5% of rated	arity: +/-0.4% of and linearity: +/ and linearity: +/ /out.	f rated lout. -0.5% of rated V				
2.lout voltage programming (*14) 3.Vout resistor programming 1.lout resistor programming (*14) 5.Output voltage monitor		0~100%, 0~5V 0~100%, 0~5/ 0~100%, 0~5/ 0~5V or 0~10V	or 0~10V, user 10Kohm full sca 10Kohm full sca 1, user selectab	selectable. Acc ale, user selecta ale, user selecta	uracy and line ble. Accuracy a ble. Accuracy a ·0.5% of rated	arity: +/-0.4% of and linearity: +/ and linearity: +/ /out.	f rated lout. -0.5% of rated V				
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.GOUTPUT CONTROLS (ISOLATED FROM THE OUTPU		0~100%, 0~5V 0~100%, 0~5/ 0~100%, 0~5/ 0~5V or 0~10V	or 0~10V, user 10Kohm full sca 10Kohm full sca 1, user selectab	selectable. Acc ale, user selecta ale, user selecta le. Accuracy: +/-	uracy and line ble. Accuracy a ble. Accuracy a ·0.5% of rated	arity: +/-0.4% of and linearity: +/ and linearity: +/ /out.	f rated lout. -0.5% of rated V				
2. Lout voltage programming (*14) 3. Vout resistor programming 4. Lout resistor programming (*14) 5. Output voltage monitor 5. Output current monitor (*14) 5. GURDALS AND CONTROLS (ISOLATED FROM THE OUTPL 1. Power supply OK #1 signal		0~100%, 0~5V 0~100%, 0~5/ 0~100%, 0~5/ 0~5V or 0~10V 0~5V or 0~10V	or 0~10V, user 10Kohm full sca 10Kohm full sca I, user selectab I, user selectab	selectable. Acc ale, user selecta ale, user selecta e. Accuracy: +/- le. Accuracy: +/-	uracy and line ble. Accuracy a ble. Accuracy a -0.5% of rated	arity: +/-0.4% or and linearity: +/ and linearity: +/ /out. out.	f rated lout. -0.5% of rated V	out.	aximum Sink Cu	urrent: 10mA.	
2. Lout voltage programming (*14) 2. Vout resistor programming 3. Lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) 5. GIGNALS AND CONTROLS (ISOLATED FROM THE OUTPL 6. Power supply OK #1 signal 6. CV/CC signal	 JT)	0~100%, 0~5V 0~100%, 0~5/ 0~5V or 0~10V 0~5V or 0~10V Power supply CV/CC Monitor	f or 0~10V, user 10Kohm full sca 10Kohm full sca I, user selectab I, user selectab output monito r. Open collecto	selectable. Acc ale, user selecta ale, user selecta le. Accuracy: +/- le. Accuracy: +/- r. Open collecto or. CC mode: On	uracy and line ble. Accuracy a ble. Accuracy a -0.5% of rated -0.5% of rated or. Output On: 0	arity: +/-0.4% oi and linearity: +/- and linearity: +/- and linearity: +/- and linearity: +/- and linearity: +/- bn. Output Off: and linearity:	frated lout. -0.5% of rated V -0.5% of rated lo	out. Voltage: 30V, M. num Sink Curre	ent: 10mA.		
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2. Lout voltage programming (*14) 2. Vout resistor programming 3. Lout resistor programming (*14) 5. Output voltage monitor 5. Output voltage monitor (*14) 5. Output current monitor (*14) 6. Power supply OK #1 signal 6. LOCAL/REMOTE Analog control 6. LOCAL/REMOTE Analog signal	 JT)	0~100%, 0~5V 0~100%, 0~5/ 0~5V or 0~10V 0~5V or 0~10V 0~5V or 0~10V 0~5V or 0~10V	f or 0~10V, user 10Kohm full sca 10Kohm full sca 7, user selectab 1, user	selectable. Acc sele, user selecta sele, user selecta de. Accuracy: +/- de. Accuracy: +/- dr. Open collecto or. CC mode: On amming contro monitor signal.	uracy and line ble. Accuracy a ble. Accuracy a 0.5% of rated 0.5% of rated or. Output On: 0 CV mode: Off l by electrical a Open collector	arity: +/-0.4% oi and linearity: +/ and linearity: +/ /out. out. On. Output Off: . Maximum Volignal or dry cor . Remote: On. Lo	f rated lout0.5% of rated V -0.5% of rated lo -0.5% of rated lo Off. Maximum V tage: 30V, Maxin ntact. Remote: 0	out. foltage: 30V, Manum Sink Curre ~0.6V or short. um Voltage: 30V	ent: 10mA. Local: 2~30V o /, Maximum Sin	r open.	A.
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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
.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
.Rated output current (*2)	A	150	75	50	38	25	19	15	10	5	2.6
Rated output power	W	1500	1500	1500	1520	1500	1520	1500	1500	1500	1560
NPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
.Input voltage/freg. (*3)		85~265Vac, cor	ntinuous, 47~6	3Hz,Single Phas	se						
2. Maximum Input current at 100% load (100/200)	Α	18.5/9		, , ,							
B.Power Factor (Typ)		0.99 @ 100Vac	0.98 @ 200Va	c. rated output	power.						
.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
Inrush current (*5)	Α	Less than 50A									
		- 10				1					
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.01% of rated									
.Max. Load regulation (*7)		0.01% of rated	output voltage	+2mV							
Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	130	75	180	500
.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	8	30	20	45	100
.Temperature coefficient	PPM/°C	50PPM/°C from	n rated output	voltage, followi	ng 30 minutes	warm-up.			•	•	
		0.01% of rated	Vout over 8hrs	interval followi	ing 30 minutes	warm-up. Cons	tant line. load 8	% temp.			
7. Warm-up drift						tes following po		a tempi			
	V			_		1		-	-	-	-
Remote sense compensation/wire (*10)	_	2	2	5	5	5	5	5	5	5	5
.Up-prog. Response time (*11)	mS	20	20	20	20	20	20	20	30	30	40
0.Down-prog.response time:	mS	20	20	20	30	30	50	50	60	70	80
No load (*12)	mS	300	500	600	900	1200	1300	1700	2200	2700	3000
1.Transient response time	mS	Time for outpu	it voltage to red	cover within 0.5	% of its rated	output for a load	d change 10~90	0% of rated out	put current. Ou	tput set-point:	10~100%,
<u> </u>		Local sense. Le	ss than 1mS, fo	r models up to	and including	100V. 2mS, for n	nodels above 10	00V.			
2.Start up delay	Sec	Less than 6 Sec									
3.Hold-up time	mS	20ms typical, ra	ated output po	wer							
CONSTANT CURRENT MODE	v	10	20	20	40	(0	00	100	150	200	(00
ONSTANT CURRENT MODE	-	10	20	30	40	60	80	100	150	300	600
.Max. Line regulation (*6)		0.01% of rated		·							
.Max. Load regulation (*9)		0.02% of rated				ſ	ĭ-			1	_
.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5
		10V~100V 10	00PPM/°C from	rated output c	urrent, follow	ng 30 minutes v	varm-up.				
Temperature coefficient	PPM/°C	150V~600V 79	0PPM/°C from	rated output cu	rrent, followir	g 30 minutes w	arm-up.				
.Temperature stability		0.01% of rated I		<u>.</u>		,		temperature			
remperature stubility						nt over 30 minu					
'. Warm-up drift											
		150V~600V: Le	ss than +/-0.15	% or rated outp	ut current ove	r 30 minutes fol	lowing power c	on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT)									
.Vout voltage programming		0~100%, 0~5V	or 0~10V. user	selectable. Acci	uracy and line	aritv: +/-0.15% c	f rated Vout.				
lout voltage programming (*14)		0~100%, 0~5V									
3.Vout resistor programming		0~100%, 0~5/1						fout			
I.lout resistor programming (*14)	_	0~100%, 0~5/1					0.5% of rated it	out.			
5.Output voltage monitor		0~5V or 0~10V,									
5.Output current monitor (*14)		0~5V or 0~10V,	, user selectabl	e. Accuracy: +/-	0.5% of rated	out.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
I. Power supply OK #1 signal		Power supply o	nutnut monitor	Opon collecto	r Output On:	On Output Offi	Off Maximum \	/oltago: 20V/ M	avimum Sink Cu	urront: 10m A	
						· · · · · · · · · · · · · · · · · · ·				unent. IoniA.	
2. CV/CC signal		CV/CC Monitor.					-		-		
3. LOCAL/REMOTE Analog control		Enable/Disable									
LOCAL/REMOTE Analog signal		analog progran								k Current: 10m/	Α.
i. ENABLE/DISABLE signal		Enable/Disable	e PS output by	electrical signal	l or dry contac	t. 0~0.6V or sho	rt, 2~30V or ope	en. User selecta	ble logic.		
i. INTERLOCK (ILC) control		Enable/Disable	e PS output by	electrical signal	or dry contac	t. Remote: 0~0.6	SV or short. Loca	al: 2~30V or op	en.		
. Programmed signals		_				25V, Maximum s					
		Maximum lov							<u>, </u>	ıt = 5V nositiv	re edne
B. TRIGGER IN / TRIGGER OUT signals		trigger: tw=10							giricverinipu	5 v positiv	cage
D. DAISY_IN/SO control signal		By electrical Vo				.,					
0. DAISY OUT/PS OK #2 signal		4~5V=OK, 0V (5									
		L24-OK, UV (5	2000mm mpec	urrecj–rall							
UNCTIONS AND FEATURES											
. Parallel operation		Possible. Up to	4 identical uni	ts in Master/Sla	ve mode. Refe	r to instruction	manual.				
. Series operation		Possible. Two id									
. Daisy chain		Power supplies				nize their turn-	on and turn-off				
. Constant power control						ming via the co			nt nanel		
. Output resistance control						rogramming via					
. Slew rate control		Programmable	Output rise ar	ıa Output fall sl	ew rate. Progr	amming range:	v.0001~999.99	v/mSec. or A/m	nsec. Programm	ning via the cor	mmunicatio
A.I. tana	-	ports or the fro		harasa II I		A satisfact 1				h - fu - ut	
. Arbitrary waveforms		Profiles of up to	o 100 steps can	pe stored in 4 i	memory cells.	activation by co	rmmand via the	communication	on ports or by t	ne front panel.	
ROGRAMMING AND READBACK (USB, LAN,	v	10	20	30	40		00	100	150	200	600
S232/485, Optional IEEE (*18) Interfaces)	V	10	20	30	40	60	80	100	150	300	600
		0.05% of rated	output voltage			-	-				
.Vout programming accuracy (*15)	_	0.1% of actual of			output current						
			d output voltac		output current						
.lout programming accuracy (*14)			u output voitag	15-							
.lout programming accuracy (*14) .Vout programming resolution			and and the			_					
.lout programming accuracy (*14) .Vout programming resolution .lout programming resolution		0.0025% of rate		ent							
.lout programming accuracy (*14) .Vout programming resolution .lout programming resolution .Vout readback accuracy		0.0025% of rated	l output voltag	ent							
.lout programming accuracy (*14) .Vout programming resolution .lout programming resolution .Vout readback accuracy		0.0025% of rate	l output voltag	ent							
Llout programming accuracy (*14) L'Out programming resolution Llout programming resolution L'Out readback accuracy Llout readback accuracy (*14)		0.0025% of rated	l output voltag	ent	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
Vout programming accuracy (*15) 2. Lout programming accuracy (*14) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy 6. Lout readback accuracy (*14) 7. Vout readback resolution (of rated output voltage) 8. Lout readback resolution (of rated output current)		0.0025% of rated 0.05% of rated 0.2% of rated o	l output voltag output current	ent e	0.003% 0.003%	0.002% 0.005%	0.002% 0.006%	0.011% 0.007%	0.007% 0.015%	0.004%	0.002%

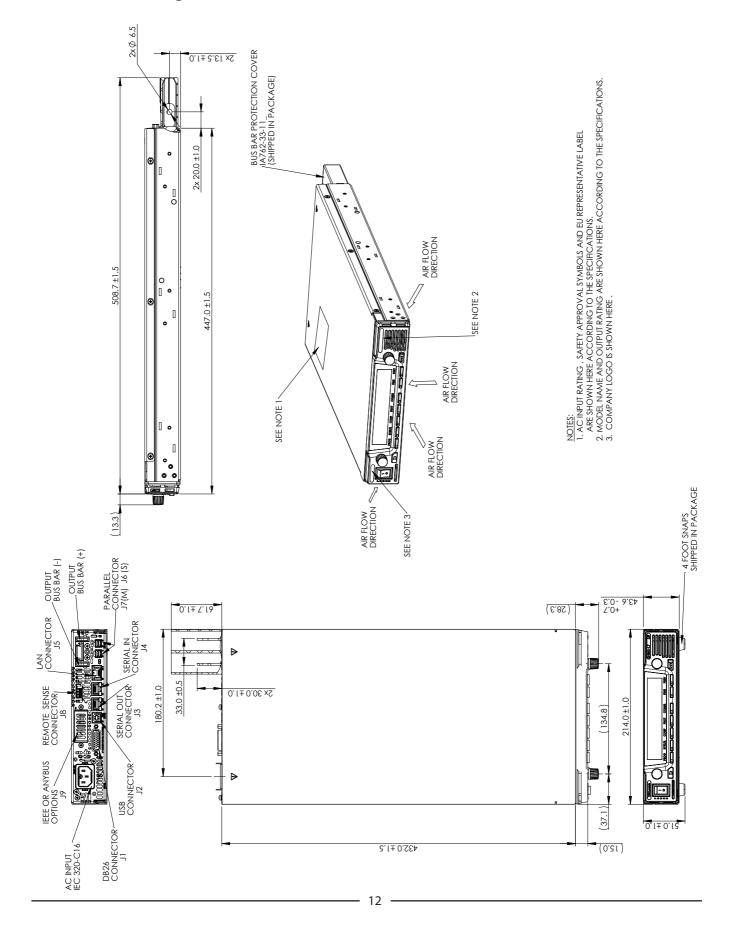
GENESYS™ GH1kW/1.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600		
1. Foldback protection			User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.									١.		
2.Over-voltage protection (OVP)			Output shut-d	own. Reset by	AC input recyc	le in autostart r	mode, by OUTP	UT button, by r	ear panel or by	y communicatio	n.			
3.Over -voltage programming rar		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5		
4. Over-voltage programming acc			+/-1% of rated											
5.Output under voltage limit (UVI	L)						n analog progr	amming. Preset	by front pane	el or communica	ition port.			
6.Over temperature protection						utostart mode.					-			
7. Output under voltage limit (UV	L)		Prevents adjus											
8. Output under voltage protection	on (UVP)					output turns (anel or by com		er voltage cond	ition. Reset by	AC input recycl	e in autostart m	node, by		
FRONT PANEL														
1.Control functions			Multiple optio	ns with 2 Enco	ders									
			Vout/Iout/Pov											
			OVP/UVL/UVP											
						ack, OCL, ENA, I	ILC							
							S485,USB or Op	tional commur	nication interfa	ace.				
			Output ON/OF											
						ud Rate, Addres	ss, IP and comm	nunication lang	uage.					
							gramming, 5V/							
			Analog Monito	or Functions - S	Selection of Vol	tage/Current N	Nonitoring 5V/1	0V.						
2.Display			Vout: 4 digits,	accuracy: 0.05	% of rated outp	ut voltage +/-1	count.							
			lout: 4 digits, a	ccuracy: 0.2%	of rated outpu	t current +/-1 co	ount.				-			
3. Front Panel Buttons Indications			OUTPUT ON, A	LARM, PREVIE	W, FINE, COMN	IUNICATION, PF	ROTECTION,COI	NFIGURATION,	SYSTEM, SEQU	IENCER.				
4. Front Panel Display Indications			OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER. Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.											
ENVIRONMENTAL CONDITIONS														
1.Operating temperature			0~50°C, 100%	load.							-			
2.Storage temperature			-30~85°C											
3.Operating humidity		%	20~90% RH (no condensation).											
4.Storage humidity		%	10~95% RH (ne	o condensatio	n).									
5.Altitude			Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).											
MECHANICAL			, ,											
MECHANICAL		T	le i i		1.C A: C	P 6	F							
1.Cooling					I fans. Air flow	direction: from	Front panel to	power supply r	ear					
2.Weight		kg	Less than 3.5kg	T										
3.Dimensions (WxHxD)		mm	W: 214, H: 43	.6, D: 493 (In	cluding busba		rs cover) (Refe	er to Outline d	rawing).					
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1											
5.Shock			Less than 20G,	half sine, 11m	Sec. Unit is unp	acked.					-			
SAFETY/EMC														
1.Applicable standards:	Safety GH1kW/1.5kW		UI 61010-1 CS	A22 2 No. 6101	0-1, IEC61010-1	FN61010-1								
ppcabic standards.	Succey Gillion, I.Skw						& J9 (communi	cation options	are Non Uses	rdous				
1.1. Interface classification	GH1kW/1.5kW		60≤Vout≤600	/ Models: Outp	out & J8 (sense)	are hazardous,	, J1, J2, J3, J4, J5	, J6, J7 & J9 (con	nmunication o	ptions) are Non	Hazardous.			
			Input - Ground 60V≤Vout≤100 Output & J8 (so Output & J8 (so	d: 2835VDC 1m DV Models: Inp ense) - J1, J2, J3 ense) - Ground	in. ut – Output & J 3, J4, J5, J6, J7 & : 1500VDC 1mii	8 (sense), J1, J2, J9 (communica n, Input - Groun	. J5, J6, J7 & J9 (c . J3, J4, J5, J6, J7 ation options): 8 nd: 2835VDC 1m	& J9 (communi 350VDC 1min. nin.	cation option	s): 4242VDC 1mi				
1.2 Withstand voltage	GH1kW/1.5kW		Output & J8 (se	ense) - J1, J2, J3 ense) - Ground	3, J4, J5, J6, J7 & : 2500VDC 1mi	J9 (communica	2, J3, J4, J5, J6, J ation options): 1		nunication opt					
1.2 Withstand voltage	GH1kW/1.5kW		Output & J8 (so Output & J8 (so Input - Ground	ense) - J1, J2, J3 ense) - Ground d: 2835VDC 1m	3, J4, J5, J6, J7 & : 2500VDC 1mi	J9 (communica n.			nunication opt	.10ns): 4242VDC				
1.3 Insulation resistance	GH1kW/1.5kW		Output & J8 (so Output & J8 (so Input - Ground 100Mohm at 2	ense) - J1, J2, J3 ense) - Ground d: 2835VDC 1m 5°C, 70%RH. O	3, J4, J5, J6, J7 & : 2500VDC 1mi in. output to Grour	J9 (communica n. nd 500VDC	ation options): 1	1275VDC 1min.	nunication opt	Ions): 4242VDC				
	GH1kW/1.5kW		Output & J8 (so Output & J8 (so Input - Ground 100Mohm at 2 IEC/EN61204-3	ense) - J1, J2, J3 ense) - Ground d: 2835VDC 1m 5°C, 70%RH. O B Industrial env	8, J4, J5, J6, J7 & : 2500VDC 1mi in. output to Grour vironment, Ann	J9 (communica n. nd 500VDC ex H table H.1,		VCCI-A.	nunication opt	Ions): 4242VDC				

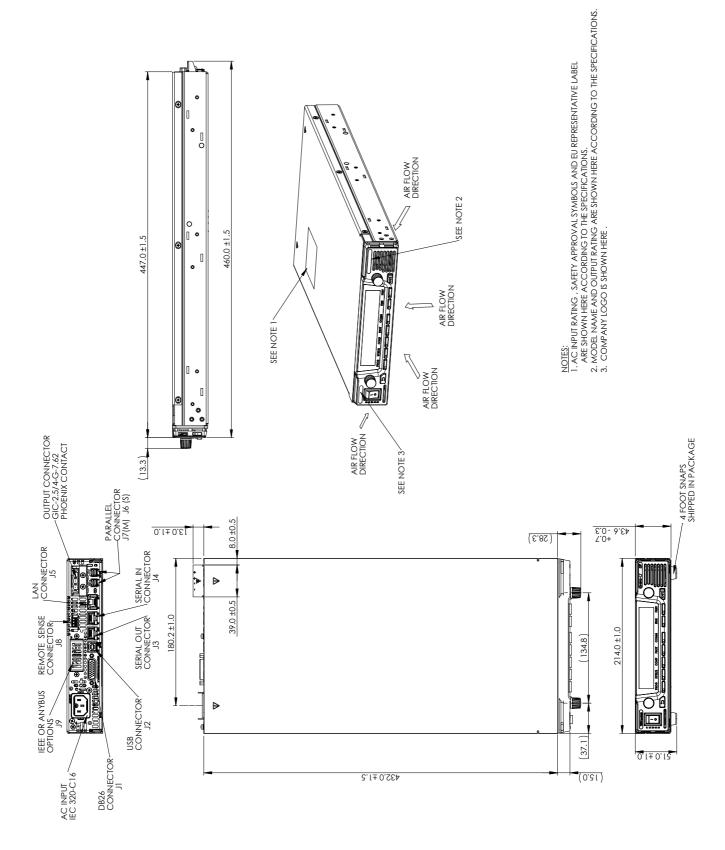
- Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C NOTES:

 *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.

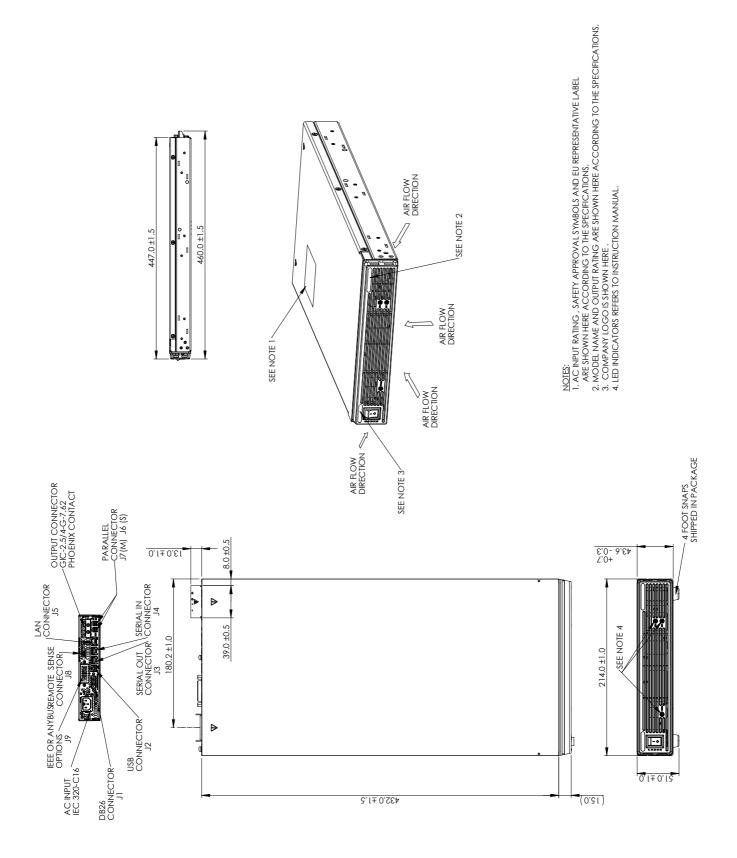
Outline Drawing **GENESYS™** GH1kW (10V-100V)



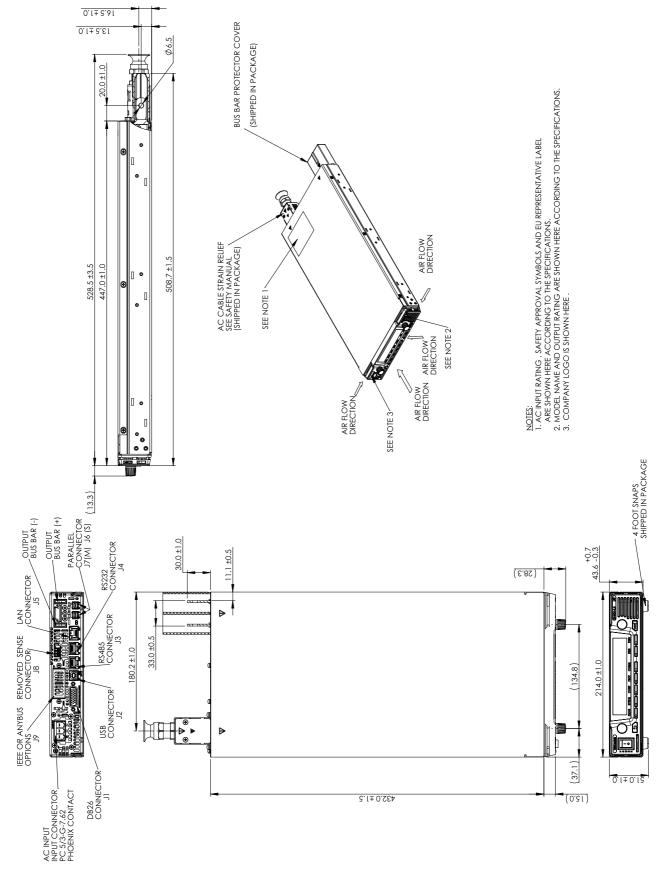
Outline Drawing GENESYS™ GH1kW (150V-600V)



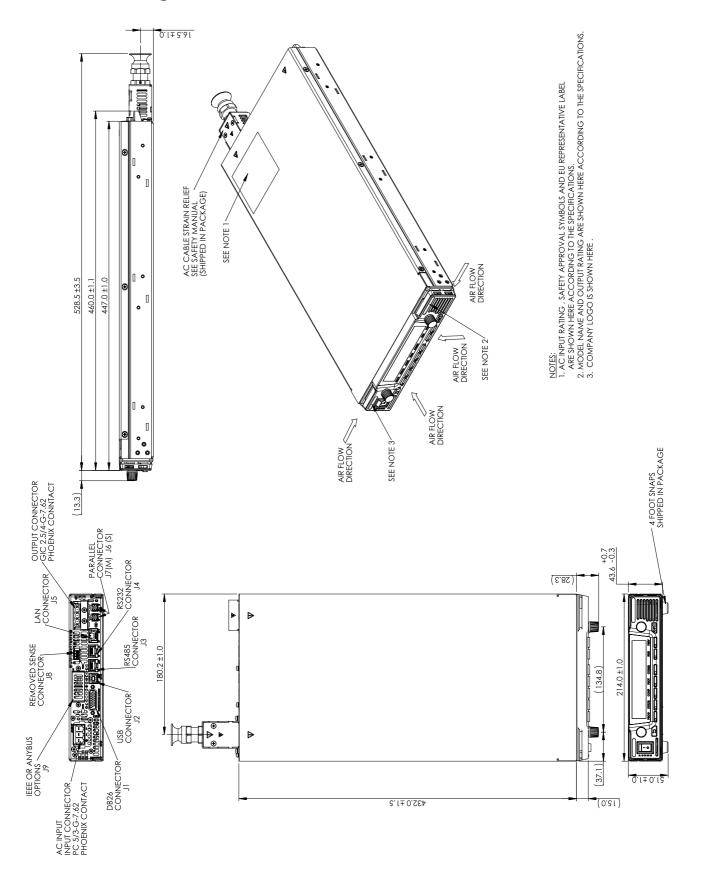
Outline Drawing GENESYS™ GHB1kW



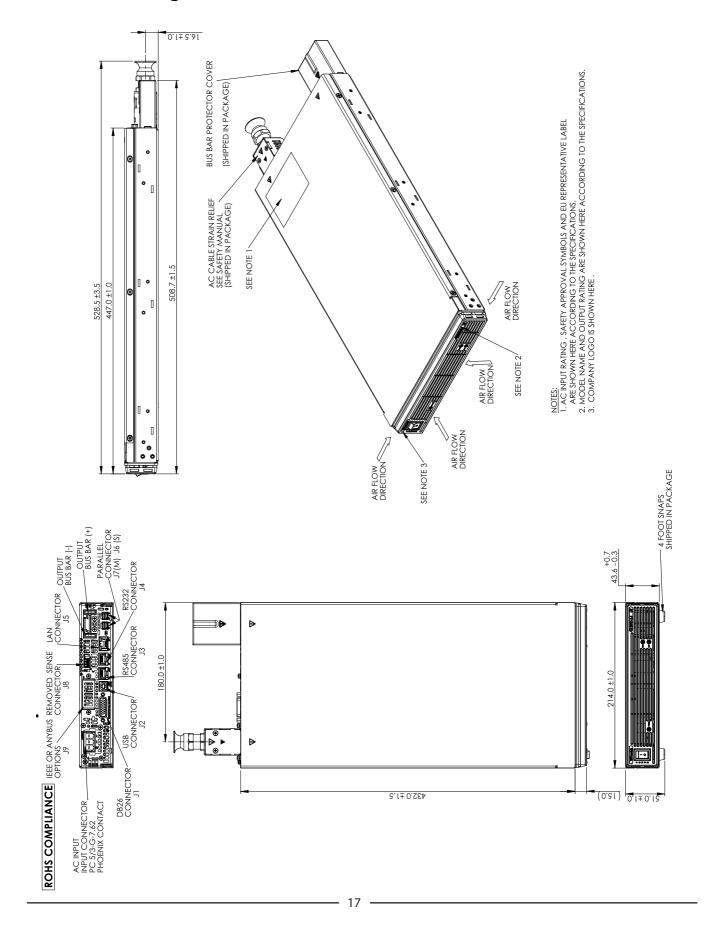
Outline Drawing GENESYS™ GH1.5kW (10V-100V)



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



Outline Drawing GENESYS™ GHB1.5kW







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