New! 800V, 1000V, 1250V and 1500V models - 10kW/15kW

Genesy

Programmable DC Power Supplies 10kW/15kW in 3U Built in RS-232 & RS-485 Interface **Advanced Parallel Operation**

Optional Interfaces: LXI Compliant LAN **GPIB (IEEE 488.2 & SCPI Compliant)** Isolated Analog Program/Monitor



Genesys™ Family

GEN H 750W Half-Rack

GEN 1U 750W/1500W/2400W Full-Rack

GEN 2U 3.3kW/5kW GEN 3U 10kW/15kW

TDK·Lambda

www.us.tdk-lambda.com/hp

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:

- High Power Density 10kW/15kW in 3U package
- High Output Current up to 1000ADC
- Wide Range of popular worldwide 3Φ AC inputs, (208VAC, 400VAC, 480VAC)
- Power Factor 0.88 (Passive PFC on all AC Inputs)
- Output Voltage up to 1500V; Output Current up to 1000A
- Built-in RS-232/RS-485 Interface Standard
- Last Setting Memory; Front Panel Lockout
- "Advanced Parallel" configuration reports total system current (up to four identical units)
- Global Commands for Serial RS-232/RS-485 Interface
- Continuous Encoders for Voltage and Current Adjustment
- Independent Remote ON/OFF and Remote ENABLE/DISABLE
- Reliable Modular and SMT Design
- 19" Rack Mounted for ATE and OEM Applications, zero-stack
- Optional Interfaces

Compliant LAN (Class C)

GPIB (IEEE 488.2 & SCPI Compliant) w/ Multi-Drop capability Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)

- LabView[™] and LabWindows[™] Software Drivers
- Worldwide Safety Agency Approvals; UL Recognized and CE Mark for LVD and EMC Regulation (208VAC, 400VAC and select 480VAC models)
- Five Year Warranty





Applications

GenesysTM power supplies are designed for demanding applications.

Test & Measurement systems using GPIB control save significant costs by incorporating the optional IEEE Multi-Drop Interface (IEMD) in the Master unit. Then up to 30 Slave units may be used with the standard RS-485 Multi-Drop-interface.

Automated System designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus as well as the optional LAN (LXI compliant) Interface.

Industrial & Military high power systems can be configured with up to four identical units in parallel (up to 60kW). No space is required above or below each power supply (zero stack). The Master unit can be configured by the user to report the total Output current of the combined system. Applications include Heaters, Magnets and Laser Diodes.

Aerospace & Satellite Testing systems use the complete Genesys™ Family: <u>1U</u>-750W Half-Rack, <u>1U</u>-750W/ 1.5kW/2.4kW Full-Rack, <u>2U</u>-3.3kW/5kW Full-Rack and <u>3U</u>-10kW/15kW Full-Rack. All are identical in Front Panel, Rear Panel Analog and Digital Interface Commands. A wide variety of Outputs (voltage and current) allows testing of many different user configurations.

Component Device Testing is simplified because of the many user-friendly control options in the Analog and Digital interfaces. Lamps, capacitors, motors and actuators are typical devices tested.

Medical Imaging and Treatment systems require reliable power. Modular construction, SMT and thoroughly proven designs assure continuous performance at full rated power.

Semiconductor Processing & Burn-in equipment designers appreciate the wide variety of worldwide AC Inputs and Outputs from which to select, depending on application. Selectable Safe-Start and Auto Re-Start protects loads and process integrity. Typical applications include Magnets, Filaments and Heaters.

Front Panel Description



- 1. AC ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Continuous encoder controls Output Voltage, Address, OVP and UVL settings.
- 4. Voltage Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Continuous encoder controls Output Current, sets Baud rate and Advanced Parallel mode.
- 6. Current Display shows Output Current and displays Baud rate. Displays total current in Parallel Master/Slave Mode.
- 7. Function/Status LEDs:
 - Alarm
- Fine Control
- Preview Settings

- Foldback Mode
- Remote Mode
- Output On
- 8. Pushbuttons allow flexible user configuration
 - Coarse and Fine adjustment of Output Voltage/Output Current and Advanced Parallel Master or Slave select.
 - Preview Settings and set Voltage/Current with Output OFF, Front Panel Lock.
 - Parallel Master/Slave (Basic and Advanced).
 - Set OVP and UVL Limits.
 - Set Current Foldback Protection.
 - Go to Local Mode and select Address and Baud rate.
 - Output ON/OFF and Safe-Start/Auto Re-Start mode.

Rear Panel Description



- 1. Remote/Local Output Voltage Sense Connections.
- 2. DIP Switches select 0-5V or 0-10V Programming and other functions.
- 3. DB25 (Female) connector allows Analog Program and Monitor (non-isolated) and other functions.
- 4. RS-485 OUT to other Genesys™ Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connectors: Rugged 2 hole busbars (shown) for models < 30V Output, single hole busbars for 30V to 300V Output, and threaded-stud terminals for models > 300V Output.
- 7. Exit air assures reliable operation when zero stacked.
- 8. Input Terminals L1, L2, L3, and Ground (threaded studs).
- 9. Optional Interface Position for LAN (LXI Class C), GPIB (IEEE 488.2 SCPI) or Isolated Analog Interface.

LAN Interface complies with LXI Class C Specification

Genesvs [™]	211	10VW	Specif	ications
Genesvs	3U	IUKVV	Specia	ICalions

.0 MODEL	GEN		10-1000					40-250	50-200	60-167	80-125	100-100	125-80	+
Rated Output Voltage	VDC	7.5	10	12.5	20	25	30	40	50	60	80	100	125	+
Rated Output Current	ADC	1000	1000	800	500	400	333	250	200	167	125	100	80	╁
Rated Output Power Efficiency (min) at low AC line, 100% Rated Load	kW %	0.75 77	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	+
.Emoloroy (IIIII) at low AO iiiid, 100 /6 Hateu Load	/0	11	<u> </u>		C	ontact Fa	ctory for o		els					+
1 CONSTANT VOLTAGE MODE (CV)														_
Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 00V; 0.05% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	4	5	6	8	10	12.5	
Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤	mV	7.5	10	12.5	20	25	30	8	10	12	16	20	25	\dagger
00V; 0.1% - 600V < Vor ≤ 1500V)	mV	20	20	20	20	20	20	20	20	20	25	25	25	+
Ripple, rms, 5Hz~1MHz, CV (*1) Output Noise, p-p, (20MHz), CV (*1)	mV	60	60	60	60	60	60	60	75	75	100	100	125	+
Remote Sense Compensation / Wire	V	1	1	1	1	1	1.5	2	3	3	4	5	5	†
Temperature Stability											Temperatu			Ť
Temperature Coefficient	ppm / °C		± 0.02% c											Ť
Up-Prog. Response Time, 0 ~ Vomax, full-load	ms							100						Ť
Up-Prog. Response Time, 0~Vomax, no-load	ms							50						I
). Transient Response Time (CV mode) (*2)	ms						Les	s than 3						1
2 CONSTANT CURRENT MODE (CC)														
Max. Line Reg. (0.1% - lor ≥ 333A; 0.050% - 17A < lor < 33A; 0.15% - lor < 17A)	mA	1000	1000	800	500	400	333	125	100	83.5	62.5	50	40	Τ
Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 17A ≤ lor <	4	4000	4000	000	500	400	000	400	450	405	- 04	75		+
33A; 0.2% - Ior < 17A) (*3)	mA	1000	1000	800	500	400	333	188	150	125	94	75	60	ļ
Ripple rms, 5Hz~1MHz, CC	mA	5300	4000	2560	1000	640	444	250	160	67	50	40	32	1
Temperature Stability						ter 30 mir	ute warm	up (cons	tant Line	Load & 7	Temperatu	re)		1
Temperature Coefficient	ppm/°C	± 300 (±	± 0.03% c	f Io Rate	d) / °C									
3 PROTECTIVE FUNCTIONS														_
OCP	%	0 ~ 100												Ţ
OCP type			nt current											1
Foldback Protection (FOLD)											n, user-sel	ectable		1
Foldback Response Time	S						= 0.25); Se							4
OVP type					al reset by	AC On/C	ff recycle,	OUT but	ton, Rem	ote Analo	g or Digita	d commuind	cation	4
OVP Programming Accuracy OVP Trip Point	%		Vo(rated)											4
OVP IND POINT	V		05% of Vo 5% of Vo(of Vo(rate	ed) - 600	V < Vor ≤	1500V; Sr	nall always l	be greater	r
OVP Response Time								/· Less th	an 2 0 (f	or Output	to begin to	o drop) for		+
	ms		Vor ≤ 150		, bog to	u.op/ .o.	10. 3 000	, 2000	2.0 (.	o. Output	to bogiii ti	o a.op/ .o.		1
. Max. OVP Reset Time	 													
a C. / HOGOL HING	S	7 (from	AC On/O		urn On)									Ť
	S 	_ `	AC On/O	ff switch t		ceeds sa	fe operatir	ng levels ((Latched	Safe-mo	de / Unlato	ched: Auto-ı	mode)	+
). Over-Temperature Protection (OTP)		Shut do	AC On/O	ff switch t rnal temp	erature ex		fe operatir node / Unl				de / Unlato	ched: Auto-ı	mode)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection		Shut do	AC On/O	ff switch t rnal temp	erature ex						de / Unlato	ched: Auto-ı	mode)	
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D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming		Shut do Yes, por 0 ~ 5V or	AC On/On own if inter ower supplement of a 10V,	ff switch to rnal temp y shutdow user-sele	erature ex vn (Latche	ed: Safe-r	node / Unl	atched: A	uto-mod		de / Unlato	ched: Auto-ı	mode)	† †
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D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming lout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable . Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL	0-100%, 0-100%, 0-100%, 0-100%, By Voltag 0 ~ 5V or 0 ~ 5V or Ves. TTL I CV: TTL I Selects R Signals o	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / ligh = OP ligh (4 ~ 1) cit; Open lemote or perating in	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Accuracy: Accu	If switch to the real temp and	erature ex vn (Latcher ctable, Ac ctable, Ac r-selectab r-selectab inable (de lo(rated), vo(rated), m series is urrent = 10 Wax. volta voltage: vor: Local	ed: Safe-r ccuracy & curacy & ele, Accura ele, Accura fault) or E user-sele user-sele user-sele ompedanc om; CC: ge across 0 ~ 0.6V = Open (N	Linearity:	±1% of V ±1% of V ±1% of Id arity: ±1° arity: ±1° tt: Open = 0 ~ 0.4V) sisable co ~ 15V = e = 30V), justment	fo(rated) fo(rat	ated) ated) ort = DIS ork current 6V = On (Ma	(user-selection (user-selection)) (user-selection) (user-selection)	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming lout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable . Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL	0-100%, 0-100%, 0-100%, 0-100%, 0-5V or 7 St or Ves.TTL I Dry conta Selects R Signals o	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kie 0 ~ 60 = 10V, n 0 ~ 10V, n High = OP High (4 ~ 1) terror or perating n manual a manual a	AC On/Oi wan if interwer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-sohm full	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latcher ctable, Ac ctable, Ac r-selectab inable (de lo(rated), Vo(rated), m series i urrent = 10 Max. volta voltage: 0 or: Local	ed: Safe-r ccuracy & curacy & lel, Accura del, Accura del, Accura fault) or E user-sele user-sele impedanc oma; CC: oge across 0 ~ 0.6V = = Open (N (coarse a oder, Fron	Linearity:	±1% of V ±1% of V ±1% of Id arity: ±1° arity: ±1° tt: Open = 0 ~ 0.4V) sisable co ~ 15V = e = 30V), justment	fo(rated) fo(rat	ated) ated) ort = DIS ork current 6V = On (Ma	(user-selection (user-selection)) (user-selection) (user-	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming lout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable . Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Ves.TTL L Dry conta Selects R Signals o	Shut do Yes, por 0 ~ 5V or 0 0 ~ 5V or 0 0 ~ 5V or 0 0 ~ 5/10kde: 0.6V = 0 ~ 10V, 0 0 ~ 10V, 0 1igh (4 ~ 5) ict; Open temote or perating n manual a a manual a selection be	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, ohm full-so bisable, 2 Accuracy: X, OV = Fe 5V), Max = Off, Sho Local ope mode; Ope adjust by y by Voltage	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche ctable., Ac ctable, Ac r-selectab r-selectab r-selectab rable (de lo(rated), vo(rated), m series i urrent = 10 Max. volta voltage: (ed: Safe-r ccuracy & curacy & ed: Accura ed:	Linearity:	#1% of V #1% of Iv #1% of Iv #	vo(rated) vo(rated) vo(rated) vo of Vo(r vo of Io(rate) vo of Io(r	ated) ated) ort = DIS ak current 6V = On (Ma	(user-selection of the selection of the	ctable logic)	
D. Over-Temperature Protection (OTP) Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection PROWNE PANEL	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Ves.TTL Dry conta Selects R Signals o	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kid 0 ~ 5/10kid 0 ~ 10V, / 1 ~ 10V, / 1 ~ 10V, / 1 ~ 10V or 1 ~ 10V o	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Disable, 2 Accuracy: A	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche ctable., Ac ctable, Ac cr-selectab r-selectab inable (de lo(rated), vo(rated), m series irrent = 11 Max. volta voltage: (or: Local :	ed: Safe-r ccuracy & curacy & die, Accura die, Coarse do of addres to/Safe),	Linearity:	±1% of V ±1% of V ±1% of Ica ±1% of Ica ±1% of Ica ±1%: 51 of Ica =18: 10 of Ica =18: 10 of Ica =19: 1	vo(rated) vo(rated) vo(rated) vo of Vo(r vo of Io(rate) vo of Io(r	ated) ated) ort = DIS ak current 6V = On (Ma	(user-selection of the selection of the	ctable logic)	
D. Over-Temperature Protection (OTP) Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection PROWNE PANEL	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or 0~5V or 0~5V or Ves.TTL I Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High = Or elemote or perating n manual a selection t FF, Outpu RS-485, IE	AC On/Oi wan if inter wer suppl 0 ~ 10V, i 0 ~ 10V, i 0 ~ 10V, i ohm full-s ohm full-s Disable, 2 Accuracy: Accurac	If switch to treat temp y shutdow user-selectuser-selec	erature expression (Latcher Actable., Actable.	ed: Safe-r ccuracy & curacy & curacy & die, Accura die, CC: ge across 0 ~ 0.6V = Copen (N die, Fron of addres to/Safe), on by real	Linearity:	±1% of V ±1% of V ±1% of Icarity: ±1° arity: ±1° a	vo(rated) vo(rated) vo(rated) vo of Vo(r vo of Vo(r vo of Vo(r vo of India vo of Vo(r vo of India vo o	ated) ated) ated) ort = DIS ak current 6V = On (Ma	(user-selection = 10mA ax sink cur	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming lout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable . Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Ves.TTL IF Dry contat Selects R Signals o Vout/ lout OVP/UVL Address Adress Baud rate	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, y 0 ~ 10V, y High = OP High = OP High (4 ~ 5) tot; Open a manual a manual a manual a FF, Cutpu RS-485, IE	AC On/Oi wan if inter wer suppl 0 ~ 10V, 1 0	If switch to treat the transfer of transfe	erature expression (Latcher Actable, Ac	ed: Safe-r ccuracy & curacy & ele, Accura ele, Accura fault) or E user-sele user-sele user-sele user-sele impedanc 0mA; CC: ge across 0 ~ 0.6V = Open (N (coarse a oder, Fron of addres to/Safe), on by rea 0, 2400, 4	Linearity:	±1% of V ± 1% of Iv ± 1% of Iv arity: ± 1° arity: ± 1° arity: ± 1° tt: Open = 0 ~ 0.4V) bisable co ~ 15V = e = 30V), justment ck/Unlock Control (CP-switch o and 19,4)	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Iout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection D. Remote/Local Signal FRONT PANEL Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or Yes.TTL I Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-032/F Baud rate Advanced	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kie 0 0 ~ 10V, n 0 ~ 10V, n 0 ~ 10V, n High = Oh High (4 ~ 1) tempte or perating n manual a manual a selection b FF, Outpu SS-485, IE S selection d Parallel	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Sisable, 2 Accuracy: Accuracy: C, 0V = Fe 5V), Max = Off, Sha Local ope mode; Ope adjust by v by Voltage at On-Off, EEE (IEM) (RS-232 Master/Sl	If switch to treat the property of the propert	erature ex vn (Latche ctable., Ac ctable, Ac cr-selectab r-selectab rable (de lo(rated), vo(rated), m series i urrent = 10 Max. volta voltage: 0 or: Local : encoders djust enco ncoder. # dodes (Au Moselection)): 120 Master u	ed: Safe-r ccuracy & curacy & ele, Accura sle, Accura sle, Accura fault) or E user-sele user-sele impedanc pedanc O = O = O = O = (coarse a oder, Fron of addres to/Safe), on by rea 0, 2400, 4 nit, where	Linearity:	±1% of V ± 1% of Iv ± 1% of Iv arity: ± 1° arity: ± 1° arity: ± 1° tt: Open = 0 ~ 0.4V) bisable co ~ 15V = e = 30V), justment ck/Unlock Control (CP-switch o and 19,4)	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Iout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection D. Remote/Local Signal FRONT PANEL Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0~5V or 0~5V or 0~5V or 0~5V or Ves.TTL I- Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ke e: 0.6V = 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, 0 — 10V, 0 India (4 ~ 5) India (4 ~ 5) India (4 ~ 5) India (5 ~ 6) India (6 ~ 6) India (7 ~ 6) India (7 ~ 6) India (8 ~ 6) India	AC On/Oi wan if inter wer suppl 0 ~ 10V, 1 0 ~ 10V, 1 0 ~ 10V, 1 0 m full-so ohm full-so bisable, 2 Accuracy: Accuracy: Accuracy: Company of the company of the c	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche ctable., Ac ctable, Ac r-selectab	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele compa; CC: ge across 0 ~ 0.6V = Open (N (coarse a dder, Fron of addres to/Safe), on by rear 0, 2400, 4 nit, where ±1 count	Linearity:	±1% of V ± 1% of Iv ± 1% of Iv arity: ± 1° arity: ± 1° arity: ± 1° tt: Open = 0 ~ 0.4V) bisable co ~ 15V = e = 30V), justment ck/Unlock Control (CP-switch o and 19,4)	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Iout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection D. Remote/Local Signal FRONT PANEL Control Functions	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or 0~5V or 0~5V or Ves.TTL L Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advance: Voltage: 4 Current: 4	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10k/e: 0 ~ 5/10k/e: 0 ~ 10V, / 0 ~ 10V, / High = Or High (4 ~ ½ lot; Open stemote or perating n manual a selection b FF, Outpu RS-485, IE selec	AC On/Oi who if inter wer suppl 0 ~ 10V, 0 ~ 10V, 10 ~	if switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche vn (Latche, Actable, Actab	ed: Safe-recuracy & curacy & curacy & de, Accuracy	Linearity:	atched: A ±1% of V ±1% of Iv ±1% of Iv ±1% of Iv ±1% of Iv carity: ±1' carit	into-modificated) (o(rated) (o(rated) (o(rated) (o') (of Vo(rated) (o') (o') (o') (o') (o') (o') (o') (o'	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0 ~ 5V or 0 ~ 5V or Yes.TTL Dry conta Selects R Signals o Vout/ lout OVP/UVL Address AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, / High = OP High (4 ~ ½ tot; Open siemote or perating n manual a selection the FF, Outpu 8S-485, IE selection the Parallel II digits, Ac digi	AC On/Oi wan if inter wer suppl 0 ~ 10V, i 0 ~ 10V, i 0 ~ 10V, i ohm full-s ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Couracy: Accuracy: Couracy:	If switch to treat temp y shutdow user-selectuser-selec	erature expression (Latcher Actable., Actable.	ed: Safe-recuracy & curacy & curacy & de, Accuracy	Linearity:	±1% of V ±1% of V ±1% of Ica arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° 0 ~ 0.4V) plasable co ~ 15V = 1 e = 30V), justment ck/Unlock Control (Co-switch 0 and 19,3° Slave unit:	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection Permote/Local Signal FRONT PANEL Control Functions Display	O-100%, O-100%, O-100%, O-100%, O-100%, By Voltag O ~ 5V or O ~ 5V or Yes. TTL I Dry contains Selects R Signals o Vout/ lout OVP/UVL Address X Adr Cos X AC OS X Current: 4 Voltmater Green LE	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, y 0 ~ 10V, y High = OP High (4 ~ 5) Lett; Open a manual a manual a manual a selection to FF, Outpu RS-485, IE e selection d Parallel I d digits, Ac displays = D's: PRE' D's: PRE'	AC On/Oi wan if inter wer suppl 0 - 10V, 1	If switch to treat the property of the propert	erature expression (Latcherature expression (Latcherature expression (Latcherature), vocate	ed: Safe-r ccuracy & curacy & del, Accura del, Accura del, Accura del, Accura del, Accura fault) or I user-sele user	Linearity:	±1% of V ±1% of V ±1% of Ica arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° 0 ~ 0.4V) plasable co ~ 15V = 1 e = 30V), justment ck/Unlock Control (Co-switch 0 and 19,3° Slave unit:	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Pesistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection PROMOTE PANEL Control Functions Display Display	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0 ~ 5V or 0 ~ 5V or Yes.TTL Dry conta Selects R Signals o Vout/ lout OVP/UVL Address AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, y 0 ~ 10V, y High = OP High (4 ~ 5) Lett; Open a manual a manual a manual a selection to FF, Outpu RS-485, IE e selection d Parallel I d digits, Ac displays = D's: PRE' D's: PRE'	AC On/Oi wan if inter wer suppl 0 - 10V, 1	If switch to treat the property of the propert	erature expression (Latcherature expression (Latcherature expression (Latcherature), vocate	ed: Safe-r ccuracy & curacy & del, Accura del, Accura del, Accura del, Accura del, Accura fault) or I user-sele user	Linearity:	±1% of V ±1% of V ±1% of Ica arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° 0 ~ 0.4V) plasable co ~ 15V = 1 e = 30V), justment ck/Unlock Control (Co-switch 0 and 19,3° Slave unit:	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) . Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Iout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable Remote/Local Selection D. Remote/Local Signal FFRONT PANEL Control Functions Display Indications 6 DIGITAL PROGRAMMING & READBACK	O-100%, O-100%, O-100%, O-100%, O-100%, By Voltag O ~ 5V or Yes.TTL I- Dry contal Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-032/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED:	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kie 0 ~ 10V, 0 0 ~ 10V, 0 0 ~ 10V, 0 High = Oh High (4 ~ 1 tet; Open a temote or perating n manual a manual a selection b FF, Outpu SF, 485, IE s selection d Parallel I d digits, Ac digits, Ac displays D's: PRE ALRM (C	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full	If switch to treat the property of the propert	erature expression (Latcherature expression (Latcherature expression (Latcherature), vocate	ed: Safe-r ccuracy & curacy & del, Accura del, Accura del, Accura del, Accura del, Accura fault) or I user-sele user	Linearity:	±1% of V ±1% of V ±1% of Ica arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° arity: ±1° 0 ~ 0.4V) plasable co ~ 15V = 1 e = 30V), justment ck/Unlock Control (Co-switch 0 and 19,3° Slave unit:	wito-modification of the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) ,, Go-to-L	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming I. lout Voltage Programming I. tout Resistor Programming I. tout Res	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or Ves.TTL I Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltmeter Green LE Red LED:	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ke e: 0.6V = 0 ~ 10V, n High = Oh High (4 ~ 1) etc; Open etemote or perating n manual a selection b FF, Outpu SS-485, IE d digits, Ac d digits, Ac d digits, Ac d digits, AC LARM (C	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: Coveracy: Accuracy: Coveracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Coveracy: Accuracy: Accuracy: Coveracy: Co	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche vn (Latche, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable (delorated), Vo(rated), maseries arrent = 10 Max. voltage: 0 or: Local: voltage: 0 or:	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele compedanc Om A; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Iout Programming Accuracy	0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0~5V or 0~5V or 0~5V or 0~5V or 0~7V or 0~5V or 0~7V o	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ke e: 0.6V = 0 ~ 10V, \(\) 10 ~ 10V, \(\) 11 igh = 0 \(\) 12 ict; Open temote or 13 perating in 14 manual \(a \) 15 selection temote or 15 perating in 16 digits, Ac 16 digits, Ac 16 digits, Ac 17 digits, Ac 18 digits, Ac 19 digits, Ac 19 digits, Ac 10 digits, Ac 11 digits, Ac 12 digits, Ac 13 digits, Ac 14 digits, Ac 15 digits, Ac 16 digits, Ac 17 digits, Ac 18 digits, Ac 19 digits, Ac 19 digits, Ac 19 digits, Ac 10 digits, Ac 1	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: Coveracy: Accuracy: Coveracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Coveracy: Accuracy: Accuracy: Coveracy: Co	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche vn (Latche, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable (delorated), Vo(rated), maseries arrent = 10 Max. voltage: 0 or: Local: voltage: 0 or:	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele impedanc DM; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Lout Voltage Programming Lout Resistor Programming Lout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Lout Programming Resolution	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or 0~5V or Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltaged Voltaged Current: 4 Voltmeter Green LE Red LED:	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, i High = Or High = Or High (4 ~ ½ Lot; Open siemote or perating n manual a selection the FF, Output RS-485, IE selection the digits, Ad digit	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: Coveracy: Accuracy: Coveracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Coveracy: Accuracy: Accuracy: Coveracy: Co	If switch to treat temp y shutdow user-selectuser-selec	erature ex vn (Latche vn (Latche, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable (delorated), Vo(rated), maseries arrent = 10 Max. voltage: 0 or: Local: voltage: 0 or:	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele impedanc DM; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Iout Voltage Programming Vout Resistor Programming Iout Posistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Iout Programming Resolution Iout Programming Resolution Iout Programming Resolution	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 10 Ves. TTL L Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Voltmeter Green LE Red LED: ± 0.5% of 0.02% of 0.04% of	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High = Or High (4 ~ v Let; Open at the complete or perating n manual a selection the FF, Output RS-485, IE selection di Parallel II digits, Ac displays D's: PRE' ALRM (C rated Out rated Out Vo(rated) Io(rated)	AC On/Oi wan if inter wer suppl 0 ~ 10V, 1	If switch to treat the transfer of	erature expression (Latcher Actable., Actable.	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele impedanc DM; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Lout Voltage Programming Lout Resistor Programming Lout Resistor Programming Lout Resistor Programming Lout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable L. Remote/Local Selection D. Remote/Local Selection Control Functions Display Display Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Lout Programming Resolution	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or Vss.TTL I- Dry Contal Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-32/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED: ± 0.5% of ± 0.5% of 0.04% of 0.04% of ± (0.1% of	Shut do Yes, por 0 ~ 5V or 0 0 ~ 5V or 0 0 ~ 5V or 0 0 ~ 5/10kie 0 0 ~ 10V, 0 0 ~ 10V, 0 0 ~ 10V, 0 indight (4 ~ 1) indight (AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10	if switch to treat the property of the propert	erature ex vn (Latche vn (Latche, Acctable, Ac	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele impedanc DM; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
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D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Lout Voltage Programming Lout Resistor Programming Lout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Lout Programming Resolution Lout Programming Resolution Lout Programming Resolution Vout Readback Accuracy Lout Readback Accuracy Lout Readback Resolution	0-100%, 0-100%, 0-100%, 0-100%, 0-100%, 0-5V or 0 - 5V or 0 - 5V or Yes.TTL L Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED: ± 0.5% of ± 0.5% of 0.02% of 0.04% of ± (0.1% of ± (0.1% of 0.02% of 0.02% of	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ke e: 0.6V = 0 ~ 10V, \(\) 1 or 10V, \(\) 1 ight 4 ~ V 1 ight 4	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10V, 10 ~ 10V, inter ohm full-s	if switch to treat the property of the propert	erature ex vn (Latche vn (Latche, Acctable, Ac	ed: Safe-r couracy & curacy & curacy & die, Accura die, Accura fault) or E user-sele user-sele user-sele user-sele impedanc DM; CC: ge across 0 ~ 0.6V = Open (N (coarse a ader, Fron of addres to/Safe), on 2400, 4 nit, where ±1 count ±1 count tal sense) OUT ON, NA, SO)	Linearity:	atched: A ±1% of V ±1% of Id arity: ±1% carity: ±1% arity: ±1% arity: ±1% carity:	into-modification of contracts and contracts are remote as selectable with the contract of contracts and contracts are remoted as selectable with the contract are remoted as selectable with the contract and contracts are remoted as selectable with the contract are remoted as selectable as selectab	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	
D. Over-Temperature Protection (OTP) I. Phase-Loss Protection 4 REMOTE ANALOG CONTROLS & SIGNALS Vout Voltage Programming Lout Voltage Programming Lout Voltage Programming Lout Resistor Programming Shut-Off (SO) Control (rear panel) Cutput Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection 2. Remote/Local Signal 5 FRONT PANEL Control Functions Display Display Indications 6 DIGITAL PROGRAMMING & READBACK Vout Programming Accuracy Lout Programming Resolution Lout Programming Resolution Lout Programming Resolution	0-100%, 0-100%, 0-100%, 0-100%, By Voltag 0 ~ 5V or 0 ~ 5V or Ves.TTL L Dry conta Selects R Signals o Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltaged 4 Voltaged ± 0.5% of 0.02% of 0.04% of ± (0.1% of 0.02% of 0.02% of 0.02% of	Shut do Yes, por 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ki 0 ~ 5/10ki 0 ~ 5/10ki e: 0.6V = 0 ~ 10V, i High = Or High	AC On/Oi wan if inter wer suppl 0 ~ 10V, 0 ~ 10	If switch to treat the treat	erature expression (Latcher Actable., Actable.	ed: Safe-recuracy & curacy & curacy & de, Accuracy	Linearity:	atched: A ±1% of V ±1% of V ±1% of Ic arity: ±1' arity: ±1' arity: ±1' arity: ±1' arity: ±1' condition of Ic condition of Ic control (Control (Co	wito-modificities and the control of	ated) ated) ated) ort = DIS ak current 6V = On (Ma e) , Go-to-L urrent adj	(user-selection of the control of th	ctable logic)	

^{*1.} Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.

*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of lo(rated).

*3 .From 20% - 100% for models with lor < 17A.

All specifications subject to change without notice.

Genesvs[™] 3U 10kW Specifications

1.0 MODEL	GEN	150-66	200-50	250-40	300-33	400-25	500-20	600-17	800-12.5	1000-10	1250-8	1500-6.7	T
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800*	1000*	1250*	1500*	
2.Rated Output Current	ADC	66	50	40	33	25	20	17	12.5	10	8.0	6.7	╀
3.Rated Output Power	kW	9.9	10.0	10.0	9.9	10.0	10.0	10.2	10.0	10.0	10.0	10.0	╀
4.Efficiency (min) at low AC line, 100% Rated Load	%	<u> </u>			83 Cont	act Factor	ry for othe	or modole		9	3.5		╀
1.1 CONSTANT VOLTAGE MODE (CV)	<u> </u>	<u> </u>			Cont	act ractor	ry ioi otile	nioueis					÷
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	\perp
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	Ļ
3. Ripple, r.m.s, 5Hz~1MHz, CV (*1) 4. Output Noise, p-p (20MHz), CV (*1)	mV mV	25 150	35 175	35 200	60 200	60 300	60 350	60 350	700	100 800	120 1000	140 1400	╀
5.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	十
6. Temperature Stability										Load & Te			t
7. Temperature Coefficient	ppm / °C	± 200 (0.02% of	Vo Rated									I
8. Up-Prog. Response Time, 0~Vomax, full-load	mS				100				<u> </u>	17			╀
9. Up-Prog. Response Time, 0~Vomax, no load 10. Transient Response Time (CV mode) (*2)	mS mS				50 Less than	3				Less ti			╀
· · · · · · · · · · · · · · · · · · ·	1 1110				Less man	<u> </u>			ı	L033 ti	iaii i		
1.2 CONSTANT CURRENT MODE (CC) 1. Max. Line Reg. (0.1% - lor ≥ 333A; 0.050% - 17A < lor < 333A; 0.15% - lor < 17A)	mA	33	25	20	17	13	10	9	19	15	12	10	Τ
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior <	mA	50	38	30	25	19	15	13	25	20	15	14	t
333A; 0.2% - lor < 17A) (*3) 3. Ripple rms, 5Hz~1MHz, CC	mA	26	20	16	13	10	8	7	15	10	6	4	+
4. Temperature Stability		-								Load & Ter		•	\dagger
5. Temperature Coefficient	ppm / °C			lo Rated)									İ
1.3 PROTECTIVE FUNCTIONS													
1. OCP	%	0 ~ 100)										Ι
2. OCP type			nt current										Ţ
3. Foldback Protection (FOLD)										nunication,	user-selec	table	+
4. Foldback Response Time 5. OVP type	S							ettable via		ote Analog	or Digital o	omm	╀
6. OVP Programming Accuracy	%		f Vo(rated		ai iesei by	AC OII/C	ni recycle	, OOT but	ion, neme	ne Analog (Ji Digital Ci	Jillili.	十
7. OVP Trip Point	V	5% to 1	05% of V	o(rated) -				of Vo(rate	ed) - 600\	/ < Vor ≤ 15	00V; Shall	always be	gre
8. OVP response time	than 105% of Vo(setting); Default = 105% of Vo(rated). Less than 10 (for Output to begin to drop) for Vor ≤ 600V; Less than 2.0 (for Output to begin to drop) for							Т					
9. Max. OVP reset time	S		Vor ≤ 15	OOV. Off switch	turn On)								╀
10. Over-Temperature Protection (OTP)		<u> </u>				ceeds sa	fe operati	ing levels.	(Latched:	Safe / Unla	atched: Aut	0)	十
11. Phase-Loss Protection								nlatched: A				ĺ	T
1.4 REMOTE ANALOG CONTROLS & SIGNALS													
1. Vout Voltage Programming								± 1% of V					I
2. lout Voltage Programming								± 1% of lo					╀
Vout resistor programming Iout Resistor Programming								arity ± 1% arity ± 1%					╀
5. Shut-Off (SO) Control (rear panel)							,			hort = DIS (user-selec	table logic)	+
6. Output Current Monitor					lo(rated),			ос. орол	,		(400) 00,00	table legicy	十
7. Output Voltage Monitor					Vo(rated),								T
8. Power Supply OK (PS_OK) Signal	-				m series i								Ι
9. CV/CC Signal										k current =	10mA		╀
10. Enable/Disable		тот, орот	,	···,		9		Disable co		5V			╀
11. Remote/Local Selection 12. Remote/Local Signal								2 ~ 15V =		= On (Max	eink currer	nt = 10mΔ)	╀
•	Oignalo	porating	11000, 00	7011 001100	tor. Locar	- Open (i	viax voita	gc = 00 v),	, Homoto	- On (Max	onnik odnici	1011171)	_
1.5 FRONT PANEL 1. Control Functions	Vout/ Iout	manual a	adjust by	senarate	encoders	(coarse a	and fine a	djustment	selectable	5)			Т
1. Control 1 directions	1					•		ock/Unloc		-)			\vdash
					encoder. #								\vdash
	AC ON/C	FF, Outpo	ut On/Off,	Restart I	Modes (Au	to/Safe),	Foldback	Control (C	CV to CC)	, Go-to-Loc	al		\vdash
	RS-232/F	RS-485, IE	EEE (IEM	D) and L	AN selecti	on by rea	r-panel Di	P-switch					
	1									urrent adjus			
0.00								Slave unit	ts (0 to 4),	Slave = Slave	ave unit(s)		\perp
2.Display	1 -	-			f Vo(rated) lo(rated)		t						\vdash
		-			. ,		or at loa	d (Remote	e sense)				\vdash
3.Indications	Green LE	D's: PRE	VIEW, FO	DLD, RE		OUT ON		CC, FINE					T
1.6 DIGITAL PROGRAMMING & READBACK				, , , , , , , , , , , , , , , , , , , ,									_
1. Vout Programming Accuracy	± 0.5% o			-									T
2. lout Programming Accuracy	-			ent for un	its with Io	< 187.5A;	± 0.7% o	f rated Ou	tput curre	nt for Io ≥1	87.5A		ľ
Vout Programming Resolution	0.02% of	. ,											\perp
<u> </u>	0.04% of		al) : 0.00	/ of \!- /-	tod\\								+
4. lout Programming Resolution		n votactu	aı) + 0.2%	∘ or vo(ra	ileu))								+
Iout Programming Resolution Vout Readback Accuracy	± (0.1% c		al) + 0 40	/ of Molro	tod))								
Iout Programming Resolution Vout Readback Accuracy Iout Readback Accuracy	± (0.1% c	of Vo(actu		% of Vo(ra	ted))								+
Nout Programming Resolution Iout Programming Resolution Vout Readback Accuracy Iout Readback Accuracy Vout Readback Resolution Iout Readback Resolution	 	of Vo(actu Vo(rated)		% of Vo(ra	ited))								H
4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution	± (0.1% of 0.02% of 0.02% of	of Vo(actu Vo(rated) Io(rated)				E Limit an	nd supply	Inhibit turr	ning On)				+

^{*800}V - 1500V models (10kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input. per EIJ R8002A

*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100~50% of lo(rated).

*3. From 20% - 100% for models with lor < 17A.

All specifications subject to change without notice.

Genesvs™	311	15kW	Specifications
MCHC3y3		IJNI	opedifications

1.0 MODEL	GEN	N/A	N/A	N/A	N/A	N/A	30-500	40-375	50-300	60-250	80-187.5	100-150	125-120	İ
1.Rated Output Voltage	VDC						30*	40*	50*	60	80	100	125	İ
2.Rated Output Current	ADC						500	375	300	250	187.5	150	120	Ť
B.Rated Output Power	kW						15.0	15.0	15.0	15.0	15.0	15.0	15.0	T
I.Efficiency (min) at low AC line, 100% Rated Load	%									88				T
, , , , , , , , , , , , , , , , , , , ,					Co	ntact Fa	ctory for c	ther mod	els					Ť
1.1 CONSTANT VOLTAGE MODE (CV)														_
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤									-			40	40.5	Т
600V; 0.05% - 600V < Vor ≤ 1500V)	mV						30	4	5	6	8	10	12.5	
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤	l _{mV}						30	8	10	12	16	20	25	
600V; 0.1% - 600V < Vor ≤ 1500V)														\perp
3. Ripple, rms, 5Hz~1MHz, CV (*1)	mV						20	20	20	20	25	25	25	1
4. Output Noise, p-p, (20MHz), CV (*1)	mV						60	60	75	75	100	100	125	_
5.Remote Sense Compensation / Wire	V						1.5	2	3	3	4	5	5	┸
6. Temperature Stability						er 30 mii	nute warm	up (cons	tant Line	, Load &	Temperatu	ıre)		\perp
7. Temperature Coefficient	ppm / °C	± 200 (±	0.02% o	f Vo(rated)) / °C									┸
B. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms							100						┸
9. Up-Prog. Response Time, 0~Vomax, no load	ms							50						1
10. Transient Response Time (CV mode) (*2)	ms						Les	s than 3						
.2 CONSTANT CURRENT MODE (CC)														
 Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A) 	mA						500	375	334	125	94	75	60	
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor <	mA						500	375	334	188	141	113	90	
333A; 0.2% - lor < 25A) (*3)	111/4													\perp
B. Ripple, rms, 5Hz~1MHz, CC	mA						350	200	150	100	100	100	50	Ţ
4. Temperature Stability						er 30 min	ute warm	up (cons	tant Line,	Load &	Temperatu	re)		Ţ
5. Temperature Coefficient	ppm/°C	± 300 (±	0.03% o	f lo(rated)) / °C									
.3 PROTECTIVE FUNCTIONS														
I. OCP	%	0 ~ 100												Т
2. OCP type		Constan	t current											Ť
B. Foldback Protection (FOLD)		Output s	hutdown	Manual r	eset by fro	ont pane	OUT but	on or DIg	ital comn	nunication	n, user-sele	ectable		Ť
4. Foldback Response Time	s				1ax = 25 /									Ť
5. OVP type											g or Digita	l communic	cation	Ť
6. OVP Programming Accuracy	%		Vo(rated)	,			, ,		,		3 - 3			Ť
<u> </u>	V			Vo(rated)	- for Vor	< 600V;	10% to 10	5% of Vo(rated) - 6	00V < Vo	r < 1500V;	Shall alwa	vs be	1
7. OVP Trip Point	V	greater t	han 105%	6 of Vo(se	tting); Def	ault = 10	5% of Vo(rated)						
B. OVP Response Time	ms				begin to o	lrop) for '	$Vor \leq 600$	V; Less th	an 2.0 (fo	or Output	to begin to	o drop) for		
	1110		/or <u><</u> 150											┸
9. Max. OVP Reset Time	s			f switch tu										\perp
10. Over-temperature Protection (OTP)											de/ Unlatc	hed: Auto-n	node)	Ļ
11. Phase-Loss Protection		Yes, pov	ver supply	/ shutdow	n (Latche	d: Safe-n	node / Un	atched: A	uto-mode	9)				
1.4 REMOTE ANALOG CONTROLS & SIGNALS														
1. Vout Voltage Programming	0~100%,	0 ~ 5V or	0 ~ 10V, ι	user-selec	table., Acc	curacy &	Linearity:	±1% of \	o(rated)					
2. Iout Voltage Programming		0 ~ 5V or												
3. Vout Resistor Programming		0 ~ 5/10kc												
4. lout Resistor Programming	0~100%,	0 ~ 5/10kc	hm full-s	cale, user	-selectable	e, Accura	cy & Line	arity: ± 1	% of lo(ra	ited)				
5. Shut-Off (SO) Control (rear panel)	By Voltag	e: 0.6V = [Disable, 2	!-15V = Er	nable (def	ault) or D	ry Contac	t: Open =	EN, Sho	ort = DIS	(user-selec	ctable logic)	
6. Output Current Monitor		0 ~ 10V, A												
7. Output Voltage Monitor	0 ~ 5V or	0 ~ 10V, A	ccuracy:	± 1% of V	/o(rated), ι	user-sele	ctable							
B. Power Supply OK (PS_OK) Signal	Yes. TTL	High = OK	, 0V = Fa	il (500ohr	n series ir	npedanc	e)							
9. CV/CC Signal	CV: TTL H	High (4 ~ 5	V), Max	source cu	rrent = 10	mA: CC:	TTL Low	(0 ~ 0.4V	, Max sir	ık current	= 10mA			
10. Enable/Disable	Dry conta	.ct; Open =	Off, Sho	rt = On: N		117 1, 00.			ntacts -	6V				
	Salacte B	emote or I			/lax. voltaç	je across								Ī
	Ociocia i		_ocal_ope			je across								T
1. Remote/Local Selection				ration by	/lax. voltag voltage: 0	je across ~ 0.6V =	Local / 2	- 15V = F	Remote	= On (Ma	ax sink cur	rent = 10m/	A)	
11. Remote/Local Selection 12. Remote/Local Signal				ration by	/lax. voltag voltage: 0	je across ~ 0.6V =	Local / 2	- 15V = F	Remote	= On (Ma	ax sink cur	rent = 10m/	A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	Signals o	perating m	ode; Ope	eration by en collecto	/lax. voltaç voltage: 0 or: Local =	e across ~ 0.6V = Open (N	Local / 2 Max voltag	- 15V = F e = 30V)	Remote Remote	,	ax sink cur	rent = 10m/	A)	
I1. Remote/Local Selection I2. Remote/Local Signal I.5 FRONT PANEL	Signals o	perating m manual a	ode; Ope	eration by en collecto eparate e	Max. voltag voltage: 0 or: Local = encoders (e across ~ 0.6V = Open (N	Local / 2 Max voltag	- 15V = F e = 30V)	Remote Remote selectabl	,	ax sink cur	rent = 10m/	A)	Ĺ
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	Signals o Vout/ lout OVP/UVL	manual a	djust by s	en collecto en collecto eparate e /oltage Ad	Max. voltage: 0 or: Local = encoders (dijust encoders)	open (Nocoarse a	Local / 2 Max voltage and fine ad t Panel Lo	- 15V = F e = 30V)	Remote Remote selectabl	,	ax sink cur	rent = 10m	A)	E
I1. Remote/Local Selection I2. Remote/Local Signal I.5 FRONT PANEL	Vout/ lout OVP/UVL Address s	manual a manual a manual a selection b	djust by s djust by \ djust by \ y Voltage	en collector en collector eparate e /oltage Ad Adjust en	Max. voltage: 0 pr: Local = encoders (incoders	open (Notes) Coarse a der, Fron f addres	Local / 2 Max voltage and fine ad t Panel Lo	- 15V = F e = 30V), justment ock/Unloc	Remote Remote selectabl	e)		rent = 10m	A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	Vout/ lout OVP/UVL Address s AC ON/O	manual amanual	djust by s djust by \ djust by \ y Voltage t On/Off,	eration by en collecto separate e /oltage Ad Adjust en Restart M	Max. voltage: 0 voltage: 0 vr: Local = encoders (i lijust encoder. # c odes (Auto	open (Notes and address of Safe),	Local / 2 Max voltage and fine add t Panel Locates ses = 31 Foldback	- 15V = F e = 30V); justment ock/Unloc	Remote Remote selectabl	e)		rrent = 10m.	A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F	manual a manual a manual a selection b FF, Output	djust by s djust by \ djust by \ y Voltage t On/Off, EE (IEME	en collector eparate e /oltage Ad Adjust en Restart M	Max. voltage: 0 voltage: 0 vr: Local = encoders (i dijust encoder. # codes (Autro N selectio	open (Notes and a coarse a der, Front of address o/Safe), In by rear	Local / 2 Max voltage and fine add t Panel Local ses = 31 Foldback of	e = 30V). justment ock/Unloc Control (Co-switch	Remote Remote selectabl	e) , Go-to-L	ocal		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate	manual amanual	djust by s djust by \ djust by \ y Voltage t On/Off, EE (IEME (RS-232/	en collector eparate e /oltage Ad Adjust en Restart M D) and LAI /RS-485 o	Max. voltage: 0 pr: Local = encoders (idjust encoder. # codes (Auto N selectionally): 1200	open (Notes and address of Safe), In by rear	nd fine ad t Panel Loses = 31 Foldback panel DII 2800, 9600	justment ock/Unloc Control (Co-switch of and 19,	Remote Remote Selectable k CV to CC)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced	manual a manual a manual a selection b FF, Output IS-485, IEI selection I Parallel N	djust by s djust by s djust by \ y Voltage t On/Off, I EE (IEME (RS-232/	eparate e /oltage Ad Adjust er Restart M D) and LAI //RS-485 o	Max. voltage: 0 pr: Local = encoders (i dijust encoders (automotion (automotion)): 1200 Master un	pe across ~ 0.6V = Open (N coarse a der, Fron of addres b/Safe), I n by rear v, 2400, 4 it, where	nd fine ad t Panel Loses = 31 Foldback panel DII 2800, 9600	justment ock/Unloc Control (Co-switch of and 19,	Remote Remote Selectable k CV to CC)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4	manual amanual	djust by s djust by s djust by \ y Voltage t On/Off, l EE (IEME (RS-232/ Master/Sla curacy: ±	en collectors eparate e deparate e deparate e de de de de de de de de de de de de	Max. voltage: 0 or: Local = or	pe across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), in by rear , 2400, 4 it, where =1 count	nd fine ad t Panel Loses = 31 Foldback panel DII 2800, 9600	justment ock/Unloc Control (Co-switch of and 19,	Remote Remote Selectable k CV to CC)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4	manual amanual	djust by s djust by s djust by v y Voltage t On/Off, EE (IEME (RS-232/ Master/Sla curacy: ± curacy: ±	ration by an collector col	Max. voltage: 0 or: Local = or	pe across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), in by rear , 2400, 4 it, where -1 count -1 count	Local / 2 Idax voltage Ind fine ad t Panel Loses = 31 Foldback i panel DII 800, 9600 x = # of 8	- 15V = F e = 30V). justment j	Remote Remote Selectable K CV to CC) 200 (by c s (0 to 4)	e) , Go-to-L urrent ad	ocal just encod		A)	
I1. Remote/Local Selection I2. Remote/Local Signal I.5 FRONT PANEL I.Control Functions 2. Display	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter	manual at manual at selection b FF, Output as-485, IEI selection I Parallel Note digits, Ac digits, Ac displays v	djust by s djust by s djust by v y Voltage t On/Off, EE (IEME (RS-232) Master/Sla curacy: ± curacy: ± curacy: ±	reaction by an collector c	Max. voltage: 0 voltag	pe across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), in by rear v, 2400, 4 it, where e1 count e1 count al sense)	Local / 2 flax voltage and fine add t Panel Lc ses = 31 Foldback or panel DII 8800, 9600 x = # of \$ or at load	- 15V = F e = 30V). justment j	Remote Remote Selectable K CV to CC) 200 (by c s (0 to 4); e sense)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions 2. Display	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE	manual a manual a selection b FF, Output S-485, IE selection I Parallel M digits, Ac digits, Ac displays v D's: PREV	djust by s djust by s djust by \v y Voltage t On/Off, EE (IEME (RS-232) Aaster/Sla curacy: ± curacy: ± roltage at (IEW, FO	enation by an collector co	Max. voltage: 0 voltag	coarse a der, Fron of address o/Safe), in by rear it, 2400, 4 it, where 1 count at sense)	Local / 2 flax voltage and fine add t Panel Lc ses = 31 Foldback or panel DII 8800, 9600 x = # of \$ or at load	- 15V = F e = 30V). justment j	Remote Remote Selectable K CV to CC) 200 (by c s (0 to 4); e sense)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. Display 16. Indications 17. Indications 18. Indications	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE	manual at manual at selection be FF, Output as-485, IEI selection I Parallel Manual at digits, Ac digits, Ac displays we	djust by s djust by s djust by \v y Voltage t On/Off, EE (IEME (RS-232) Aaster/Sla curacy: ± curacy: ± roltage at (IEW, FO	enation by an collector co	Max. voltage: 0 voltag	coarse a der, Fron of address o/Safe), in by rear it, 2400, 4 it, where 1 count at sense)	Local / 2 flax voltage and fine add t Panel Lc ses = 31 Foldback or panel DII 8800, 9600 x = # of \$ or at load	- 15V = F e = 30V). justment j	Remote Remote Selectable K CV to CC) 200 (by c s (0 to 4); e sense)	e) , Go-to-L urrent ad	ocal just encod		A)	
II. Remote/Local Selection II. Remote/Local Signal II. FRONT PANEL II. Control Functions II. Display II. Display II. DIGITAL PROGRAMMING & READBACK	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED	manual armanual arman	djust by s djust by s djust by v y Voltage t On/Off, EE (IEML (RS-232/ Master/Sla curacy: ± curacy: ± roltage at rIEW, FO VP, OTP,	reation by en collector experience of collector experi	Max. voltage: 0 voltag	coarse a der, Fron of address o/Safe), in by rear it, 2400, 4 it, where 1 count at sense)	Local / 2 flax voltage and fine add t Panel Lc ses = 31 Foldback or panel DII 8800, 9600 x = # of \$ or at load	- 15V = F e = 30V). justment j	Remote Remote Selectable K CV to CC) 200 (by c s (0 to 4); e sense)	e) , Go-to-L urrent ad	ocal just encod		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. Display 16. Indications 16. DIGITAL PROGRAMMING & READBACK 16. Vout Programming Accuracy	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LED	manual acmanual acmanual acmanual acelection before the selection before	djust by s djust by s djust by \(\) y Voltage t On/Off, EE (IEME (RS-232) Master/Sla curacy: ± curacy: ± voltage at (IEW, FO VP, OTP, put voltage	eparation by en collector eleparate e foltage Ad Adjust er Restart M D) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ D, D, REM FOLD, AC ge	Max. voltage: 0 or: Local = encoders (i i i i i i i i i i i i i i i i i i i	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
II. Remote/Local Selection II. Remote/Local Signal II. FRONT PANEL II. Control Functions II. Display II. Display II. DIGITAL PROGRAMMING & READBACK III. Vout Programming Accuracy III. Out Programming Accuracy III. Out Programming Accuracy	Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED: ± 0.5% of ± 0.5% of	manual amanual	djust by s djust by s djust by \(\) y Voltage t On/Off, EE (IEME (RS-232) Master/Sla curacy: ± curacy: ± voltage at (IEW, FO VP, OTP, put voltage	eparation by en collector eleparate e foltage Ad Adjust er Restart M D) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ D, D, REM FOLD, AC ge	Max. voltage: 0 or: Local = encoders (i i i i i i i i i i i i i i i i i i i	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
II. Remote/Local Selection I2. Remote/Local Signal I.5 FRONT PANEL I.Control Functions I. Display I. Digital PROGRAMMING & READBACK I. Vout Programming Accuracy I. Out Programming Accuracy I. Out Programming Accuracy I. Out Programming Accuracy I. Out Programming Resolution	Vout/ lout OVP/UVL Address : AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Voltmeter Green LE Red LED	manual acmanual acmanual acmanual acplection b FF, Output IS-485, IEI selection I Parallel M digits, Accdisplays v D's: PREV ALRM (O	djust by s djust by s djust by \(\) y Voltage t On/Off, EE (IEME (RS-232) Master/Sla curacy: ± curacy: ± voltage at (IEW, FO VP, OTP, put voltage	eparation by en collector eleparate e foltage Ad Adjust er Restart M D) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ D, D, REM FOLD, AC ge	Max. voltage: 0 or: Local = encoders (i i i i i i i i i i i i i i i i i i i	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
II. Remote/Local Selection I2. Remote/Local Signal I.5 FRONT PANEL I. Control Functions I. Display I. Display I. DIGITAL PROGRAMMING & READBACK I. Vout Programming Accuracy I. lout Programming Accuracy I. Vout Programming Resolution I. Jour Programming Resolution I. Lout Programming Resolution I. Lout Programming Resolution	Vout/ lout OVP/UVL Address 2 AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED	manual acmanual acmanual acmanual acmanual acplection b FF, Output IS-485, IEI selection I Parallel N digits, Ac digits, Ac displays v D's: PREV ALRM (O rated Out Vo(rated) lo(rated)	djust by s djust by s djust by v y Voltage t On/Off, EE (IEML (RS-232/ Master/Sla curacy: ± curacy: ± voltage at /IEW, FO VP, OTP, put voltag put curre	ration by en collector separate e /oltage Ac Adjust er Restart M D) and LAI (RS-485 o Ave: Hx = 0.5% of \ 0.5% of \ \ 0.5% of \ \ 0.5% of \ \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \	Max. voltage: 0 pr: Local = pricoders (indiget for the content of	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. FRONT PANEL 16. Control Functions 16. DIGITAL PROGRAMMING & READBACK 17. Vout Programming Accuracy 18. Iout Programming Accuracy 19. Iout Programming Resolution 19. Iout Programming Resolution 19. Iout Programming Resolution 19. Iout Programming Resolution 19. Iout Programming Resolution 19. Iout Programming Resolution	Vout/ lout OVP/UVL Address 2 AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED	manual acmanual acmanual acmanual acplection b FF, Output IS-485, IEI selection I Parallel M digits, Accdisplays v D's: PREV ALRM (O	djust by s djust by s djust by v y Voltage t On/Off, EE (IEML (RS-232/ Master/Sla curacy: ± curacy: ± voltage at /IEW, FO VP, OTP, put voltag put curre	ration by en collector separate e /oltage Ac Adjust er Restart M D) and LAI (RS-485 o Ave: Hx = 0.5% of \ 0.5% of \ \ 0.5% of \ \ 0.5% of \ \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \ 0.6% of \	Max. voltage: 0 pr: Local = pricoders (indiget for the content of	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. Indications 16. DIGITAL PROGRAMMING & READBACK 16. Vout Programming Accuracy 17. Lout Programming Accuracy 18. Vout Programming Resolution 18. Vout Readback Accuracy 19. Lout Programming Resolution 19. Lout Programming Resolution 19. Lout Programming Resolution 19. Vout Readback Accuracy	Vout/ lout OVP/UVL Address AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED: ± 0.5% of 0.02% of 0.04% of ± (0.1% of ± (0.1% of the control of the cont	manual acmanual acmanual acmanual acmanual acplection b FF, Output IS-485, IEI selection I Parallel N digits, Ac digits, Ac displays v D's: PREV ALRM (O rated Out Vo(rated) lo(rated)	djust by s djust by s djust by v y Voltage t On/Off, l EE (IEMIC (RS-232/Aaster/Sia curacy: ± curacy: ± voltage at /IEW, FO VP, OTP, put volta put curre I) + 0.2%	retation by en collector separate e /oltage Ad Adjust er Restart MD) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ \ 0.5% of \ \ 0.5mover su LD, REM FOLD, Additional for units of Vo(rate	Max. voltage: 0 pr: Local = pricoders (idjust encoders) dijust encoders dodes (Autility): 1200 Master un //o(rated) ± //o(rated) to for the coders // LOCAL, C FAIL, EN s with lo <	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. Display 16. Digital PROGRAMMING & READBACK 16. Vout Programming Accuracy 17. Lout Programming Accuracy 18. Vout Programming Resolution 19. Lout Programming Resolution 19. Lout Programming Resolution 19. Lout Programming Resolution 19. Vout Readback Accuracy 19. Lout Readback Accuracy	Vout/ lout OVP/UVL Address AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED: ± 0.5% of 0.02% of 0.04% of ± (0.1% of ± (0.1% of the control of the cont	manual acmanual acmanual acmanual acmanual acpledition beff, Output IS-485, IEI selection I Parallel Medical action of the control of the con	djust by s djust by s djust by v y Voltage t On/Off, l EE (IEMIC (RS-232/Aaster/Sia curacy: ± curacy: ± voltage at /IEW, FO VP, OTP, put volta put curre I) + 0.2%	retation by en collector separate e /oltage Ad Adjust er Restart MD) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ \ 0.5% of \ \ 0.5mover su LD, REM FOLD, Additional for units of Vo(rate	Max. voltage: 0 pr: Local = pricoders (idjust encoders) dijust encoders dodes (Autility): 1200 Master un //o(rated) ± //o(rated) to for the coders // LOCAL, C FAIL, EN s with lo <	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
11. Remote/Local Selection 12. Remote/Local Signal 13. FRONT PANEL 14. Control Functions 15. Indications 16. DIGITAL PROGRAMMING & READBACK 16. Vout Programming Accuracy 17. Vout Programming Resolution 18. Indications 19. Solut Programming Resolution 19. Vout Readback Accuracy 19. Iout Programming Resolution 19. Vout Readback Accuracy 19. Iout Readback Accuracy 19. Vout Readback Resolution 19. Vout Readback Resolution 19. Vout Readback Resolution 19. Vout Readback Resolution 19. Vout Readback Resolution	Vout/ lout OVP/UVL	manual acmanual acmanual acmanual acmanual acmanual acelection before the selection before th	djust by s djust by s djust by v y Voltage t On/Off, l EE (IEMIC (RS-232/Aaster/Sia curacy: ± curacy: ± voltage at /IEW, FO VP, OTP, put volta put curre I) + 0.2%	retation by en collector separate e /oltage Ad Adjust er Restart MD) and LAI (RS-485 o ave: Hx = 0.5% of \ 0.5% of \ \ 0.5% of \ \ 0.5mover su LD, REM FOLD, Additional for units of Vo(rate	Max. voltage: 0 pr: Local = pricoders (idjust encoders) dijust encoders dodes (Auth N selectionally): 1200 Master un //o(rated) ± //o(rated) to pply (Locally) s with lo < edits s with lo <	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), n by rear , 2400, 4 it, where 1 count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc see 31 Foldback panel DII 800, 9600 x = # of \$ or at loac //OFF, CV/	- 15V = F e = 30V). justment cck/Unloc Control (C switch 0 and 19, Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	
11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	Vout/ lout OVP/UVL Address ≥ AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter Green LE Red LED: ± 0.5% of ± 0.5% of 0.02% of 0.02% of 0.02% of 0.02% of 0.02% of	manual acmanual acmanual acmanual acmanual acmanual acelection before the selection before th	djust by s djust by s djust by v y Voltage t On/Off, EE (IEME (RS-232/ Aaster/Slat curacy: ± curacy: ± roltage at 7IEW, FO VP, OTP, put voltage put curre 1) + 0.2%	entation by en collector separate e collector e collector separate e collector separate e collector separate e collector separate e collector e collector separate e collector e col	Max. voltage: 0 or: Local = encoders (indigent of the process of t	ge across ~ 0.6V = Open (N coarse a der, Fron of addres o/Safe), in by rear o, 2400, 4 it, where et a count al sense) OUT ON JA, SO)	ELocal / 2 Max voltage and fine add t Panel Lc ses = 31 Foldback i panel DII 800, 960i x = # of \$ or at loac /OFF, CV/	- 15V = F e = 30V), justment ock/Unloc Control (C P-switch D and 19,3 Slave unit	Remote Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote Selectable Remote	e) , Go-to-L urrent ad ; S = Slav	ocal just encod re unit(s)		A)	

^{*30}V, 40V and 50V models (15kW) only available with 400VAC and 480VAC. For 208VAC Input models please contact the factory.

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.

*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of rated Output.

*3. From 20% - 100% for models with lor < 25A.

All specifications subject to change without notice.

Genesys [™] 3U 15kW Specification	Genesvs ™	3U	15kW	Specifications
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1.0 MODEL	GEN	150-100	200-75	250-60	300-50	400-37.5	500-30	600-25	800-18.8	1000-15	1250-12	1500-10	15
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800*	1000*	1250*	1500*	
2.Rated Output Current	ADC	100	75	60	50	37.5	30	25	18.8	15	12	10	
3.Rated Output Power	kW	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.04	15.0	15.0	15.0	
4.Efficiency (min) at low AC line, 100% Rated Load	%	13.0	13.0	13.0	88	13.0	13.0	13.0	13.04		3.5	13.0	H
	7/0					act Factor	v for othe	r models	<u> </u>	9	3.3		H
1.1 CONSTANT VOLTAGE MODE (CV)					00110	act ractor	y ioi otile	THOUGH					_
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	
3. Ripple r.m.s, 5Hz~1MHz, CV (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	
4. Output Noise p-p (20MHz), CV (*1)	mV	150	175	200	200	300	350	350	700	800	1000	1400	L
5.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	
6. Temperature Stability						after 30 m	inute war	m up, con	stant Line	, Load & Te	mperature		L
7. Temperature Coefficient	ppm / °C	200 (0.0	02% of V	o Rated) /							_		L
8. Up-Prog. Response Time, 0~Vomax, full-load	mS mC				100					17			L
9. Up-Prog. Response Time, 0~Vomax, no load	mS mC				50	2				17			
10. Transient Response Time (CV mode) (*2)	mS				Less than	3			<u> </u>	Less t	nan i		_
1.2 CONSTANT CURRENT MODE (CC)													
1. Max. Line Reg (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A)	mA	50	38	30	25	19	15	13	28	23	18	15	
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor <	mA	75	57	45	38	28	23	19	38	30	24	20	
333A; 0.2% - lor < 25A) (*3)	1												H
3. Ripple r.m.s, 5Hz~1MHz, CC	mA	50	20	20	20	10	10	10	15	10	6	4	\vdash
4. Temperature Stability		. 				ter 30 mir	nute warm	up (cons	tant Line,	Load & Ter	nperature)		\vdash
5. Temperature Coefficient	ppm / °C	1 ± 300 (:	± 0.03%	of lo(rated	i)) / °C								L
1.3 PROTECTIVE FUNCTIONS													_
1. OCP	%	0 ~ 100											
2. OCP type		Consta	nt current	t									
3. Foldback Protection		Output	shut dow	n; Manua	I reset by	front pane	el OUT bu	tton or DI	gital comn	nunication,	user-select	table	
4. Foldback Response Time	s	Less th	an 1 (Mir	1 = 0.25 /	Max = 25	/ Default :	= 0.25); S	ettable via	a "FBD" co	mmand			Π
5. OVP type		Inverter	shut-dov	vn; Manu	al reset by	On/Off re	ecycle, Ol	JT button,	Remote A	Analog or D	igital comn	nunication	
6. OVP Programming Accuracy	%	± 5% of	Vo(rated	l)			-						
7. OVP Trip Point	V					r <u><</u> 600V; ; Default =				00V < Vor <	≤ 1500V; Sh	nall always	
8. OVP response time	ms	Less th		r Output t						r Output to	begin to dr	rop) for	
9. Max. OVP reset time	s			off switch	turn On)								\vdash
10. Over temperature Protection						vcaade ea	fe onerati	na lovele	(Latched:	Safa/ I Inlat	tched: Auto)	Н
11. Phase Loss Protection									Auto-mode		icried. Auto)	Н
		1 .cc, pc	по. оарр	iy onatao	···· (Euton	00.00.0		idionio di 7	tato modo	,			_
1.4 REMOTE ANALOG CONTROLS & SIGNALS	I a 4000/	0 51/	0 1011					40/ (1)					_
1. Vout Voltage Programming		0 ~ 5V or											L
2. lout Voltage Programming	0 ~ 100%									D.			L
3. Vout resistor programming	+								of Vo(rate				L
4. lout Resistor Programming									of lo(rate			1!->	L
5. Shut-Off (SO) Control (rear panel)	+							ct: Open :	=EIN, Shor	t-DIS (user	-selectable	logic)	H
6. Output Current Monitor		0 ~ 10V,											-
7. Output Voltage Monitor	0 ~ 5V or												L
8. Power Supply OK (PS_OK) Signal	+	High = Ol						(0 0 11	\ \A	le au	10 mr A		H
9. CV/CC Signal	+							•		k current =	IUMA		
10. Enable/Disable									ontacts = 6	οV			
11. Remote/Local Selection	Selects F									On /14-	alalı e	4 10···· A`	\vdash
12. Remote/Local Signal	Signals o	perating r	noae; Op	en collec	or: Local	= Open (I	viax volta	ge = 30V)	, Hemote :	= On (Max	sink curren	ιτ = 1UmA)	
1.5 FRONT PANEL													
1.Control Functions						•		-	selectable	e)			L
		_ manual a		-	-			ock/Unloc	:k				L
		selection		-									\vdash
									(CV to CC), Go-to-Lo	cal		
	RS232/R		,			-							L
										rent adjust	,		L
								Slave unit	s (0 to 4);	S = Slave ı	unit(s)		L
	1 1/-14	4 digits, A	-				t						L
2.Display	1 "	4 digits, A			. ,								_
2.Display	Current:		voltage a	it power s									L
	Current: 4	displays					1/OFF (:V	/CC, FINI	E				
	Current: 4 Voltmeter Green LE	displays D's: PRE :.ALRM (0	VIEW, FO	DLD, RE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
3.Indications	Current: 4 Voltmeter Green LE	D's: PRE	VIEW, FO	DLD, RE									
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK	Current: 4 Voltmeter Green LE Red LED	D's: PRE :.ALRM (0	VIEW, FO	DLD, REM P, FOLD, A									Г
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy	Current: 4 Voltmeter Green LE Red LED ± 0.5% o	D's: PRE:.ALRM (0	VIEW, FO	DLD, REM P, FOLD, A	AC FAIL, E	ENA, SO)		f rated O	utput curre	nt for lo ≥1	87.5A		F
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. lout Programming Accuracy	Current: 4 Voltmeter Green LE Red LED ± 0.5% o ±0.5% of	D's: PRE :.ALRM (0 f rated Ou rated Out	VIEW, FO	DLD, REM P, FOLD, A	AC FAIL, E	ENA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. lout Programming Accuracy 3. Vout Programming Resolution	Current: 4 Voltmetel Green LE Red LED ± 0.5% of ±0.5% of 0.02% of	ED's: PRE :.ALRM (of f rated Out rated Out Vo(rated)	VIEW, FO	DLD, REM P, FOLD, A	AC FAIL, E	ENA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution	Current: 4 Voltmetel Green LE Red LED ± 0.5% of 0.02% of 0.04% of	f rated Ourated Ourated Ourated Ourated)	VIEW, FOOVP, OTF	DLD, REM P, FOLD, A age ent for unit	S with Io	ENA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy	Current: 4 Voltmetel Green LE Red LED ± 0.5% of 0.02% of 0.04% of ± 0.1% +	D's: PRE ::ALRM (0 f rated Our rated Out Vo(rated) lo(rated) 0.2% of r	VIEW, FOOVP, OTF	DLD, REM P, FOLD, A age ent for unit	s with Io	NA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
3. Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy	Current: 4 Voltmetel Green LE Red LED ± 0.5% of ±0.5% of 0.02% of 0.04% of ± 0.1% + ± 0.1% +	D's: PRE ::ALRM (0 f rated Our rated Out Vo(rated) lo(rated) 0.2% of r 0.4% of r	VIEW, FOOVP, OTF	DLD, REM P, FOLD, A age ent for unit	s with Io	NA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution	Current: 4 Voltmeter Green LE Red LED ± 0.5% of 0.02% of 0.04% of ± 0.1% + ± 0.1% + 0.02% of	D's: PRE ::ALRM (for fated Out rated Out Vo(rated) Io(rated) 0.2% of r 0.4% of r Vo(rated)	VIEW, FOOVP, OTF	DLD, REM P, FOLD, A age ent for unit	s with Io	NA, SO)		f rated Ou	utput curre	nt for Io ≥1	87.5A		
2.Display 3.Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution 8. Iout Readback Resolution 9. OV Response Time	Current: 4 Voltmetel Green LE Red LED ± 0.5% of ±0.5% of 0.02% of 0.04% of ± 0.1% + ± 0.1% +	Frated Ourated Ourated Ourated Ourated) Io(rated) 0.2% of r 0.4% of r Vo(rated) Io(rated)	VIEW, FC DVP, OTF atput volta put curre ated Out ated Out	DLD, REN P, FOLD, A age ant for unit put voltag put currer	e e	:NA, SO) < 187.5A;	+/-0.7% 0			nt for Io ≥1	87.5A		

^{*800}V - 1500V models (15kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R8002A.

*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of lo(rated).

*3. From 20% - 100% for models with lor < 25A.

All specifications subject to change without notice.

General Specifications, Genesys™ 3U 10kW/15kW

2.1 INPUT CHARACTERISTICS		
Input Voltage / Frequency (range)		208VAC (180-253), 400VAC (360-440 , 342-440 (select 10kW/15kW models)), 480VAC (432-528); 47-63Hz (all)
2. No. of phases		3-Phase (Wye or Delta) 4 wire total (3-Phase and 1 protective Earth ground)
3. Dropout Voltage	V	180 / 360, 342 (select models) / 432; select models (10kW): 800V-1500V, select models (15kW): 30V-50V, 800V-1500V
4. Input Current (180VAC/360 or 342VAC/432VAC)	Arms	10kW - 45/23/20 (Vout ≤ 600V); N/A/23/20 (800V ≤ Vout ≤ 1500V) - at full rated Output power
4. Input Current (180 VAC/300 or 342 VAC/432 VAC)	Aillis	15kW - 64/32/27 (Vout ≤ 600V); N/A/32/27 (800V ≤ Vout ≤ 1500V) - at full rated Output power
5. Inrush Current	Α	Not to exceed full rated Input current (see para. above)
6. Power Factor		0.88 Passive (typical)
7. Leakage Current	mA	3.5 (EN60950) max.
8. Input Protection		208VAC: circuit breaker (Vout ≤ 600V); 400VAC/480VAC (all models) - line fuse
9. Input Overvoltage Protection		Unit shall not be damaged by line overvoltage of 120% nominal AC input voltage with maximum duration of 100usec.
10. Phase Imbalance	%	≤ 5% on Three-Phase Input

2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation	Up to four (4) identical units may be connected in Master/Slave Mode with single wire connection (*3). In Advanced-Parallel feature, the current of Master unit multiplied by number of units connected in parallel, is available via digital interface and displayed on the front panel display of the Master unit. Remote Analog current monitor of the Master is scaled to the Output current of the Master unit (only).
2. Series Operation	Possible (with external diodes); Up to two identical units with total Output voltage not to exceed ± 600V from Chassis ground (for Vor ≤ 600V); not to exceed ± 1500V from Chassis ground (for 600V < Vor ≤ 1500V).

2.3 ENVIRONMENTAL CONDITIONS

2.0 ENTINOUMENTAL CONDITIONS	
Operating Temperature	0 ~ +50°C, 100% load
Storage Temperature	-20 ~ +70°C
Operating Humidity	20 ~ 80% RH (non-condensing)
4. Storage Humidity	10 ~ 90% RH (non-condensing)
5. Vibration & Shock	ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used.
6. Altitude	Operating: +50°C up to 7500 ft. (2500m), +45°C from 7501 to 10,000ft (2501m - 3000m), Non-Operating 40,000 ft (12,000m)
7. Audible Noise	65dBA at lo(rated) (measured 1m from front panel)

2.4 EMC (*4)

2.4 EMC (*4)	
1. 208VAC Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
4. Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
Power Frequency Magnetic Field	EN61000-4-8
7. Conducted Emissions	EN55011A, FCC part 15J-A
8. Radiated Emissions	EN55011A, FCC part 15J-A
2. 400VAC/480VAC (*4) Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
Power Frequency Magnetic Field	EN61000-4-8
7. Voltage Dips, Short Interruptions and Voltage Variations Immunity Test (400VAC Only).	IEC 61000-4-11
8. Conducted Emissions	EN55011A, FCC part 15J-A
9. Radiated Emissions	EN55011A, FCC part 15J-A

2.5 SAFETY	
1.Applicable Standards:	UL/cUL 60950-1, EN60950-1 recognized, CB Scheme, CE Mark (208VAC & 400VAC inputs only) 7.5V ≤ Vout ≤ 400V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV 400V < Vout ≤ 600V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are not SELV 600V < Vout ≤ 1500V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV
2. Withstand Voltage	Vout ≤ 300V models: Input - Ground: 2900VDC for 1min, Input-Hazardous Output: 3500VDC for 1min, Input - SELV: 2900VDC for 1min Hazardous Output - SELV: 2121VDC for 1min, Hazardous Output - Ground: 2121VDC for 1min 300 < Vout ≤ 600V models: Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 3900VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2688VDC for 1min, Hazardous Output - Ground: 2688VDC for 1min 600 < Vout ≤ 1500V models: Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 5040VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2500VDC for 1min, Hazardous Output - Ground: 2500VDC for 1min
3.Insulation Resistance	> 100Megohms at 500VDC, +25°C

2.6 MECHANICAL CONSTRUCTION

1. Cooling	Fan-driven, Airflow from front to rear. Supplemental vents on side that shall not be blocked. EIA Rack mounting, stackable "Zero Stackable" top and bottom. Chassis slides or suitable rear support required.
2. Dimensions (WxHxD)	Width: 429mm / 16.9", Height: 3U - 133mm / 5.22", Depth - 564mm / 22.2" (excluding connectors, encoders, handles, etc.)
3. Weight	32kg / 70lbs
4. AC Input connector (with Protective Cover)	$3 \times M6 \times 1$ " threaded studs (L1, L2, L3 and Chassis GND) and terminal cover.
5.Output Connectors	Up to and including 300V models: bus-bars (one and two-hole). Greater than 300V models: M6 x 0.5" threaded-stud terminals.
6.Control Connectors	Analog Programming: DB25, plastic connector, AMP747461-5, Female on Supply; Male on Mating connector, 747321, 25 pin Sub-D connector.
7. Mounting Method	Standard 19" Rack-Mount, provision for standard chassis slides. Side/Rear Support is required; Do not mount by front panel only.
8. Output Ground Connection	M5 x 1.0" threaded-stud

2.7 WARRANTY

i. warranty	13	o years
+0. OENEOVOTM 001/ F01/ (451/M)		(45)MD

*3 GENESYS™ 30V-50V (15kW) and 800V-1500V (10kW/15kW) mdoels require a Two-Wire Parallel Master-Slave connection. See the Product USer's Manual for details.
*4. 30V-50V (15kW) and 800V-1500V (10kW/15kW) models with 480VAC Input have CE Mark.
All specifications subject to change without notice



Genesys[™] Power Parallel and Series Configurations

Parallel operation - Master/Slave:

Active current sharing allows up to four identical units to be connected in an Auto-parallel configuration for four times the Output power. In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.



Series operation

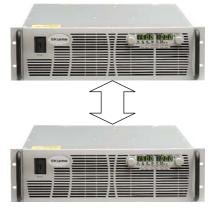
Up to two units may be connected in series to increase the Output voltage or to provide bipolar output. (Max 600V to Chassis GND for Vor < 600V; Max 1500V to Chassis GND for 600V < Vor < 1500V).

Remote Programming via RS-232 & RS-485 Interface

Standard Serial Interface allows daisy-chain control of up to 31 power supplies on the same communication bus with built-in RS-232 & RS-485 Interface.







P/N: IEMD

P/N: "----"

P/N: IS510

P/N: IS420

P/N: LAN

Programming Options (Factory installed)

IEEE Multi-Drop Interface

- Allows IEEE Master to control up to 30 (Standard) slaves over RS-485 daisy-chain
- Only the Master needs be equipped with IEEE Interface
- IEEE 488.2 & SCPI Compliant
- Program Voltage
- Measure Voltage
- Over-Voltage setting and shutdown
- Error and Status Messages

- Program Current
- Measure Current
- Current Foldback shutdown

Multi-Drop Slave Option is Standard

- Standard Units are equipped with the Multi-Drop Slave (RS-485) function
- Allows RS-485 Master to control up to 30 (standard) Slaves over RS-485 Daisy-chain

Isolated Analog Programming

- Four Channels total (Two to Program Voltage and Current; Two to Monitor Voltage and Current)
- Isolation allows operation with floating references in harsh electrical environments.
- Choose between programming with Voltage or Current.
- Connection via removable terminal block: Phoenix MC1,5/8-ST-3.81
- Voltage Programming, User-selectable 0-5V or 0-10V signal.

Power supply Voltage and Current Programming Accuracy: ±1%

Power supply Voltage and Current Monitoring Accuracy: ±1.5%

Current Programming with 4-20mA signal.

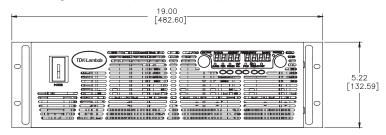
Power supply Voltage and Current Programming Accuracy: ±1%

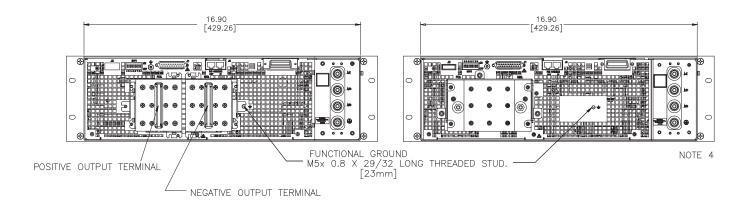
LAN Interface LXI Compliant to Class C

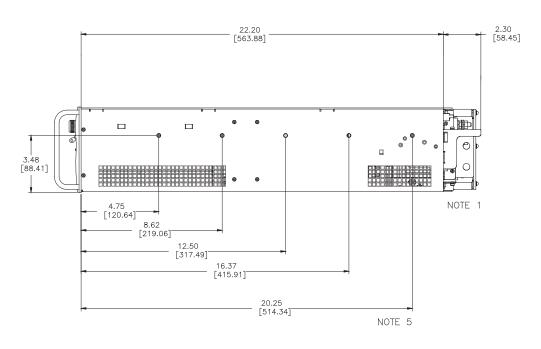
- Meets all LXI Class C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Fast Startup

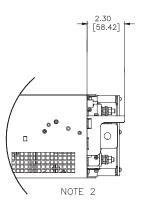
- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Compatible with most standard Networks

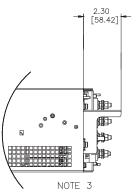
Outline Drawings: Genesys™ 10kW (All - 208VAC), 10kW/15kW (60V to 600V - 208/400/480VAC)







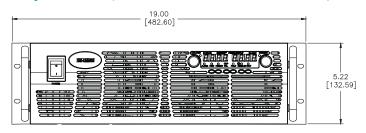


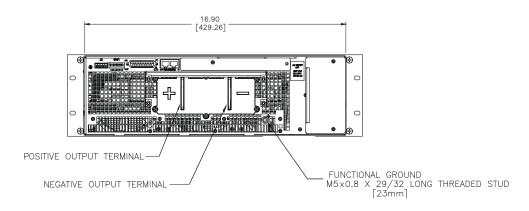


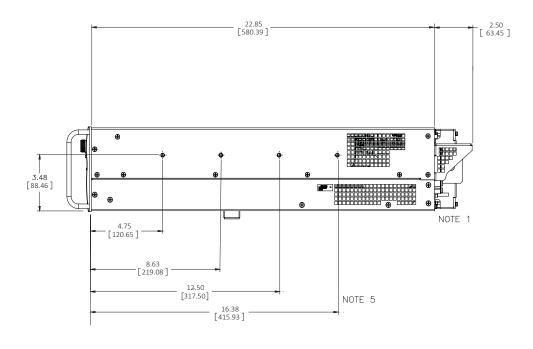
NOTES:

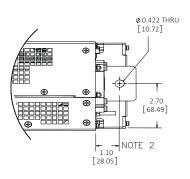
- 1. Busbars for models up to 30V Output: two holes 0.42" (10.72mm) diameter.
- 2. Busbars for models 40-300V (10kW) and 60-300V (15kW) Output: one hole 0.42" (10.72mm) diameter.
- 3. Threaded stud terminal for models above 300V Output.
- 4. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2).
- Mounting for Slide Mounts (not included).
 Recommend General Devices, Chassis Trak P/N C230-S-122.
 Secure with pan head screw M5 x 0.8-8mm long (max).

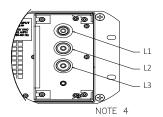
Outline Drawings: Genesys™ 15kW (30V to 50V - 400VAC/480VAC)







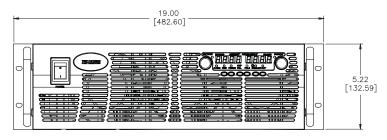


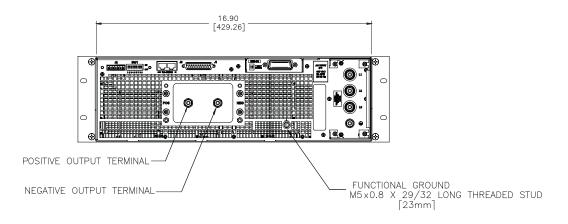


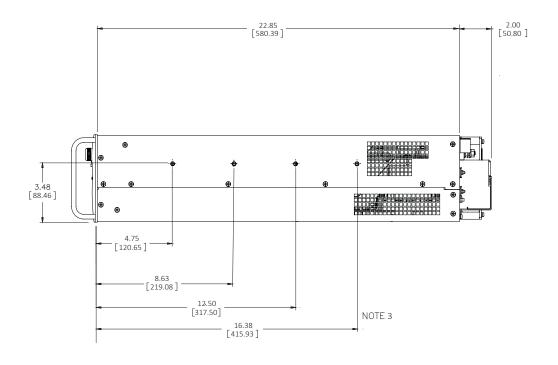
NOTES:

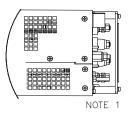
- 1. N/A
- 2. Bus bars for models 30-50V Output (15kW): one hole 0.42" (10.72mm) diameter.
- 3. N/A
- 4. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2)
- Mounting for Slide Mounts (not included).
 Recommend General Devices, Chassis Trak P/N C230-S-122.
 Secure with pan head screw M5 x 0.8-8mm long (max).

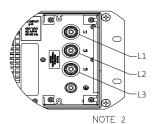
Outline Drawings: Genesys™ 15kW (800V to 1500V - 400VAC/480VAC)











NOTES:

- 1. Threaded stud terminals for 800V 1500V Output; M5 x 1".
- 2. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2)
- 3. Mounting for Slide Mounts (not included). Recommend General Devices, Chassis Trak P/N C230-S-122. Secure with pan head screw M5 x 0.8-8mm long (max).

Power Supply Identification / Accessories (Genesys[™] 3U 10/15kW) How to Order:

<u>GEN 10 - 1000</u>

Factory Options
Option: "----"

3P208
AC Input Options

Series Output Output Name Voltage Current (0~10V) (0~1000A)

LAN IEMD IS510 IS420 3P208 (Three-Phase 208VAC) 3P400 (Three-Phase 400VAC) 3P480 (Three-Phase 480VAC)

Model	Output Voltage (Vdc)	Output Current (Adc)	Output Power (kW)	
GEN 7.5-1000	0~7.5	0~1000	7.5	
GEN 10-1000	0~10	0~1000	10	
GEN 12.5-800	0~12.5	0~800	10	
GEN 20-500	0~20	0~500	10	
GEN 25-400	0~25	0~400	10	
GEN 30-333	0~30	0~333	10	
GEN 30-500	0~30	0~500	15	
GEN 40-250	0~40	0~250	10	
GEN 40-375	0~40	0~375	15	
GEN 50-200	0~50	0~200	10	
GEN 50-300	0~50	0~300	15	
GEN 60-167	0~60	0~167	10	
GEN 60-250	0~60	0~250	15	
GEN 80-125	0~80	0~125	10	
GEN 80-187.5	0~60	0~187.5	15	
GEN 100-100	0~100	0~100	10	
GEN 100-150	0~100	0~150	15	
GEN 125-80			10	
GEN 125-120	0~125	0~120	15	
GEN 150-66	0~150	0~66	10	
GEN 150-100	U~ 15U	0~100	15	

Model	Output Voltage (Vdc)	Output Current (Adc)	Output Power (kW)	
GEN 200-50	0~200	0~50	10	
GEN 200-75	0~200	0~75	15	
GEN 250-40	0~250	0~40	10	
GEN 250-60	0~250	0~60	15	
GEN 300-33	0~300	0~33	10	
GEN 300-50	0~300	0~50	15	
GEN 400-25	0~400	0~25	10	
GEN 400-37.5	0~400	0~37.5	15	
GEN 500-20	0.500	0~20	10	
GEN 500-30	0~500	0~30	15	
GEN 600-17	0.600	0~17	10	
GEN 600-25	0~600	0~25	15	
GEN 800-12.5	0~800	0~12.5	10	
GEN 800-18.8	0~800	0~18.8	15	
GEN 1000-10	0~1000	0~10	10	
GEN 1000-15	0~1000	0~15	15	
GEN 1250-8	0.1050	0~8	10	
GEN 1250-12	0~1250	0~12	15	
GEN 1500-6.7	0.1500	0~6.7	10	
GEN 1500-10	0~1500	0~10	15	

Factory options

RS-232/RS-485 Multi-Drop Interface (built-in Standard)
LAN Interface (LXI Class C compliant)
GPIB (Multi-Drop Master) Interface
Voltage Programming Isolated Analog Interface
Current Programming Isolated Analog Interface

P/N "____"

LAN IEMD

IS510 (standard on 800-1500V models)

IS420

Accessories

1. Serial Communication cable

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

Mode	RS-485	RS-232	RS-232	
PC Connector	DB-9F	DB-9F	DB-25F	
Communication Cable	Shield Ground, L=2m	Shield Ground, L=2m	Shield Ground, L=2m	
Power Supply Connector	EIA/TIA-568A (RJ-45)	EIA/TIA-568A (RJ-45)	EIA/TIA-568A (RJ-45)	
P/N	GEN/485-9	GEN/232-9	GEN/232-25	

2. Serial Link cable*

Daisy-chain up to 31 Genesys™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N	
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground, L=50cm	GEN/RJ45	

 $^{^{\}star}$ Included with GENESYS $^{\text{TM}}\text{-}1U, \ \text{-}2U$ power supply only.

Genesys™ Family - Output Voltage / Output Current

Model	GENH		GEN-1U		GEI	N-2U	GE	N 3U
Rated Power	750W	750W	1500W	2400W	3300W	5000W	10kW	15kW
Voltage Range				Output	Current Rang	je		
0~6V	0~100A	0~100A	0~200A					
0~7.5V							0~1000A	
0~8V	0~90A	0~90A	0~180A	0~300A	0~400A	0~600A		
0~10V				0~240A	0~330A	0~500A	0~1000A	
0~12.5V	0~60A	0~60A	0~120A				0~800A	
0~15V					0~220A			
0~16V				0~150A		0~310A		
0~20V	0~38A	0~38A	0~76A	0~120A	0~165A	0~250A	0~500A	
0~25V							0~400A	
0~30V	0~25A	0~25A	0~50A	0~80A	0~110A	0~170A	0~333A	0~500A ^{(3), (4)}
0~40V	0~19A	0~19A	0~38A	0~60A	0~85A	0~125A	0~250A	0~375A(3), (4)
0~50V			0~30A				0~200A	0~300A ^{(3), (4)}
0~60V	0~12.5	0~12.5A	0~25A	0~40A	0~55A	0~85A	0~167A	0~250A
0~80V	0~9.5A	0~9.5A	0~19A	0~30A	0~42A	0~65A	0~125A	0~187.5A
0~100V	0~7.5A	0~7.5A	0~15A	0~24A	0~33A	0~50A	0~100A	0~150A
0~125V							0~80A	0~120A
0~150V	0~5A	0~5A	0~10A	0~16A	0~22A	0~34A	0~66A	0~100A
0~200V							0~50A	0~75A
0~250V							0~40A	0~60A
0~300V	0~2.5A	0~2.5A	0~5A	0~8A	0~11A	0~17A	0~33A	0~50A
0~400V							0~25A	0~37.5A
0~500V							0~20A	0~30A
0~600V	0~1.3A	0~1.3A	0~2.6A	0~4A	0~5.5A	0~8.5A	0~17A	0~25A
0~800V							0~12.5A	*0~18.8A ^{(3), (4}
0~1000V							0~10A	*0~15A ^{(3), (4)}
0~1250V							0~8A	*0~12A ^{(3), (4)}
0~1500V							0~6.7A	*0~10A ^{(3), (4)}
Weight (kg/lb)	4.5 / 9.9	7.0 / 15.0	8.5 / 18.0	10 .0 / 22.0	13.0 / 29.0	16.0 / 35.0	43.0 / 97.0	43.0 / 97.0 *32.0 / 70.0

⁽⁴⁾ Available in 400VAC and 480VAC input. For 208VAC input please contact the factory.

AC Inputs

85-265Vac, 1Ø	• (1)	• (1)	• (1)					
230Vac, 1Ø				• (1	• (1)			
208Vac, 3Ø				• (1	• (1)	• (1)	• (2)	• (2)
400Vac, 3Ø					• (1)	• (1)	• (2)	• (2)
480Vac, 3Ø							• (3)	• (3)

⁽¹⁾ UL Listed; CE Mark , RoHS (2) UL Recognized; CE Mark (3) UL Recognized only (CE Mark for select 10kW (800V-1500V) and 15kW (30V-50V and 800V-1500V) models.

Options (All Models)

75 31 51 15	
""	Standard (with Multi-Drop Slave installed)
LAN	LXI Compliant LAN Interface (Class C)
IEMD	IEEE Master (IEEE 488.2 & SCPI compliant) with Multi-Drop Slave installed
IS510	Isolated Analog Programming (0-5V or 0-10V, User-selectable); standard on 800-1500V Outputs
IS420	Isolated Analog Programming (4-20mA)

⁽All options are factory installed and limited to one per power supply). All specifications subject to change without notice.