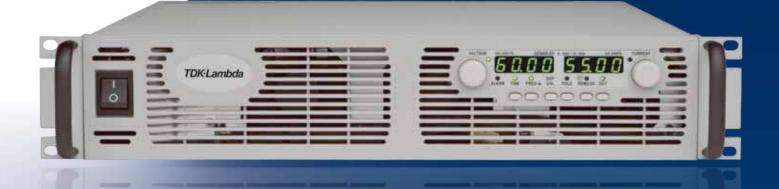
# **Genesys**<sup>TM</sup>

Programmable DC Power Supplies 3.3 kW in 2U
Built in RS-232 & RS-485 Interface
Parallel Current Summing
Optional Interfaces: USB

[XI] Compliant LAN
IEEE488.2 SCPI Multi-Drop
Isolated Analog Interface



Genesys™ Family

GEN H 750W Half Rack

GEN 1U 750/1500W Full Rack

**GEN 2U 3.3/5kW** 

**GEN 3U 10/15kW** 

TDK·Lambda

www.us.tdk-lambda.com/hp

The Genesys<sup>™</sup> family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in Test & Measurement, Industrial and Laboratory applications.

### Features include:

- High Power Density 3.3kW in 2U
- Wide Range of popular worldwide AC inputs, 1ø (230VAC) & 3ø (208VAC, 400VAC)
- Active Power Factor Correction (Single-Phase & Three-Phase AC Input)
- Output Voltage up to 600V, Current up to 400A
- Built-in RS-232/RS-485 Interface Standard
- Last Setting Memory; Front Panel Lockout
- Advanced Parallel reports total current up to four identical units
- Global Commands for Serial RS-232/RS-485 Interface
- Reliable 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

Isolated Analog Programming and Monitoring

IEEE Multi-Drop - SCPI

LXI Compliant LAN Interface

**USB** Interface

- Labview<sup>™</sup> and LabWindows<sup>™</sup> drivers
- Five Year Warranty

Worldwide Safety Agency Approvals; CE Mark for LVD and EMC Regulation





### **Applications**

**Genesys™** power supplies are designed for demanding applications. Common controls are shared across all platforms.

**Test & Measurement systems** using GPIB control save significant costs by incorporating the optional IEEE Multi-Drop Interface (IEMD) in the Master. Then up to 30 Slaves may be equipped with the less expensive Optional RS-485 Multi-Drop (MD) 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 optional LAN (LXI compliant) or USB Interfaces.

**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 can be configured by the user to report total current of the combination. Applications include Heaters, Magnets and Laser Diodes.

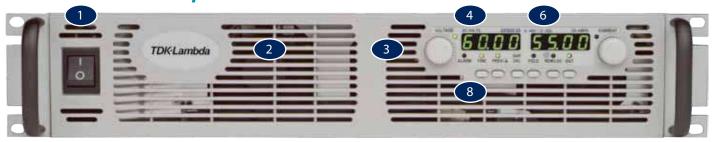
**Aerospace & Satellite Testing** systems use the complete Genesys™ Family: 1U 750W Half Rack, 1U 750W or 1500W Full-Rack, 2U 3.3kW and 3U 10/15kW. All are identical in Front Panel, Rear Panel Analog and Digital Interface Commands. A wide variety of outputs allows testing of many different devices.

**Component Device Testing** is simplified because of the many user-friendly control options in 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 Inputs and Outputs from which to select depending on application. Selectable Safe and Auto Re-start protects loads and process integrity. Typical applications include Magnets, Filaments and Heaters.

### Front Panel Description



- 1. ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable encoder controls Output Voltage, Address, OVP and UVL settings.
- 4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Reliable encoder controls Output Current, sets baudrate, 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/Current and Advanced Parallel Master or Slave select.
  - Preview settings and set Voltage/Current with Output OFF, Front Panel Lock
  - Parallel Master/Slave
  - Set OVP and UVL Limits
  - Set Current Foldback Protection
  - Go to Local Mode and select Address and Baud rate
  - Output ON/OFF and Auto-Re-Start/Safe-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 (Non-isolated) Analog Program and Monitor and other functions.
- 4. RS-485 OUT to other Genesys™ Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connections: Rugged busbars (shown) for up to 100V Output; wire clamp connector for Outputs >100V
- 7. Exit air assures reliable operation when zero stacked.
- 8. Input: 230VAC Single Phase (shown), 208 & 400VAC Three Phase, 50/60 Hz
  AC Input Connector: PHOENIX CONTACT Power Combicon PC 6/... Series with strain relief.
- 9. Optional Interfaces Position for IEEE 488.2 (GPIB) (shown), Isolated Analog Interface, LAN Interface or USB Interface.

LAN Interface complies with LXI Class C Specification

1.0 MODEL	GEN	8-400	10-330	15-220	20-165	30-110	40-85	60-55	80-42	100-33	150-22	300-11	600-5.
1.Rated output voltage(*1)	V	8	10	15	20	30	40	60	80	100	150	300	600
2.Rated Output Current(*2)	A	400	330	220	165	110	85	55	42	33	22	11	5.5
3.Rated Output Power	W	3200	3300	3300	3300	3300	3400	3300	3360	3300	3300	3300	3300
1.1 CONSTANT VOLTAGE MODE		1											
1.Max.line regulation ( 0.01% of rated Vo+ 2mV )(*6)	mV	2.8	3	3.5	4	5	6	8	10	12	17	32	62
2.Max load regulation ( 0.015% of rated Vo+5mV )(*7)	mV	6.2	6.5	7.25	8	9.5	11	14	17	20	27.5	50	95
3.Ripple and noise p-p 20MHz (*8)	mV	60	60	60	60	60	60	60	80	100	100	300	500
4.Ripple r.m.s 5Hz~1MHz	mV	8	8	8	8	8	8	8	8	8	25	100	120
5.Remote sense compensation/wire	V	2	2	2	2	5	5	5	5	5	5	5	5
6.Temp. coefficient	PPM/°C												
7.Temp. stability										, load & ten	np.		
8.Warm-up drift		Less that	11 0.05% 01	rated outp		ZIIIV OVEI	30 minutes	iollowing	ower On.	150			1 250
9.Up-prog. response time, 0~Vo Rated (*9)  10.Down-prog response time Full-load (*9)	mS mS	20	ı	100	30		160		1		00		250 500
No-load (*10)	mS	500	600	700	800	900	1000	1100	1200	1500	2000	3500	4000
11.Transient response time	mS									10-90% of ra			1 4000
1.2 CONSTANT CURRENT MODE		current. C	Dutput set-	point: 10-10 r models u	00%, local	sense.			_				
1.Max.line regulation (0.01% of rated lo+ 2mA)(*6)	mA	42	35	24	18.5	13	10.5	7.5	6.2	5.3	4.2	3.1	2.6
2.Max.load regulation (0.02% of rated lo+5mA)(*11)	mA	85	71	49	38	27	22	16	13.4	11.6	9.4	7.2	6.1
3.Ripple r.m.s 5Hz~1MHz . (*12)	mA	1300	1200	880	660	300	200	100	80	70	60	20	10
4.Load regulation thermal drift				ated outpu									
5.Temp. coefficient	PPM/°C	200PPM	/°C from ra	ted output	current, fo	lowing 30	minutes w	arm-up.					
6.Temp. stability		0.05% of	frated lout	over 8hrs.	interval fol	lowing 30r	ninutes wa	rm-up. Cor	nstant line,	, load & ten	nperature.		
7.Warm-up drift				ss than 0.5									
		30V~600	V models:	Less than	0.25% of r	ated outpu	t current o	ver 30 mini	utes follow	ing power (	On.		
1.3 PROTECTIVE FUNCTIONS													
1. OCP		-	Constant C										
2. OCP Foldback				hen power			CV to CC.	User selec	table.				
3. OVP type								T					
4. OV/D take a sket									by comm	unication p			T = 000
Output Under Voltage Limit		0.5~10V Preset by	0.5~12V y front pan		1~24V nunication p	2~36V	2~44V	5~66V	r by comm 5~88V	5~110V	ort comma   5~165V	nd. 5~330V	5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING		0.5~10V Preset by User sele	0.5~12V y front pane ectable , la	1~18V el or comm tched or no	1~24V nunication pon-latched.	2~36V port. Preve	2~44V nts from a	5~66V djusting Vo	5~88V ut below lii	5~110V			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1.Vout Voltage Programming		0.5~10V Preset by User selection	0.5~12V y front panectable, la	1~18V el or comm tched or no ~10V, user	1~24V nunication pon-latched.	2~36V port. Preve	2~44V nts from a	5~66V djusting Vo	5~88V ut below line	5~110V			5~660
1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. lout Voltage Programming (*13)		0.5~10V Preset by User selection 0~100%, 0~100%,	0.5~12V y front pane ectable , la , 0~5V or 0 , 0~5V or 0	1~18V el or comm tched or no ~10V, user ~10V, user	1~24V nunication pon-latched.	2~36V port. Preve curacy and curacy and	2~44V nts from ac linearity:± linearity:±	5~66V djusting Vo 0.5% of rate	5~88V ut below lined Vout.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING  1. Vout Voltage Programming 2. lout Voltage Programming (*13)  3. Vout Resistor Programming		0.5~10V Preset by User selection 0~100%, 0~100%, 0~100%,	0.5~12V y front pandectable, la , 0~5V or 0 , 0~5V or 0 , 0~5/10Ko	1~18V el or comm tched or no ~10V, user ~10V, user hm full sca	1~24V nunication pon-latched. select. Accesselect. Accesselect. Accesselect. Accessed	2~36V port. Preve curacy and curacy and curacy and ect.,Accura	2~44V nts from ac linearity:± linearity:± ccy and line	5~66V djusting Vo 0.5% of rate arity: ±1%	t by comm 5~88V ut below lined ed Vout.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. lout Voltage Programming (*13) 3. Vout Resistor Programming 4. lout Resistor Programming (*13)		0.5~10V Preset by User selection 0~100%, 0~100%, 0~100%, 0~100%,	0.5~12V y front pane ectable , la 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko	1~18V el or comm tched or no ~10V, user ~10V, user hm full sca	1~24V nunication pon-latched.	2~36V port. Preve curacy and curacy and curacy and cut, Accura ect. Accura	2~44V Ints from action into the control of the cont	5~66V djusting Vo 0.5% of rate 1% of rateo earity: ±1% earity:±1.5%	r by comm 5~88V ut below lined Vout.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. lout Voltage Programming (*13) 3. Vout Resistor Programming 4. lout Resistor Programming (*13) 5. On/Off control (rear panel)		0.5~10V Preset by User selection 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr	0.5~12V y front pan- ectable , la 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko ical. Voltag	1~18V el or commtched or no ~10V, user ~10V, user hm full sca hm full sca je: 0~0.6V/	1~24V nunication pon-latched. select. Acc select. Acc le,user sele le,user sele 2~15V,or d	2~36V port. Preve curacy and curacy and ect.,Accura ect. Accurary contact	2~44V Ints from action into the control of the cont	5~66V djusting Vo 0.5% of rate 1% of rateo earity: ±1% earity:±1.5%	r by comm 5~88V ut below lined Vout.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.Vout Voltage Programming 2. Iout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 4. Iout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13)		0.5~10V Preset by User selection 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr	0.5~12V y front pan- ectable , la , 0~5V or 0 , 0~5V or 0 , 0~5/10Ko , 0~5/10Ko ical. Voltag 0~10V , Ac	1~18V el or commtched or no ~10V, user ~10V, user hm full sca hm full sca je: 0~0.6V/ ccuracy:±19	1~24V nunication pon-latched. select. Acc select. Acc le,user sele le,user sele 2~15V,or d %, user se	2~36V port. Preve curacy and curacy and ect.,Accuracy contact y contact lectable.	2~44V Ints from action into the control of the cont	5~66V djusting Vo 0.5% of rate 1% of rateo earity: ±1% earity:±1.5%	r by comm 5~88V ut below lined Vout.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. lout Voltage Programming (*13) 3. Vout Resistor Programming 4. lout Resistor Programming (*13) 5. On/Off control (rear panel)		0.5~10V Preset by User sele  0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr 0~5V or 0	0.5~12V y front pane ectable , la , 0~5V or 0 , 0~5V or 0 , 0~5/10Ko , 0~5/10Ko ical. Voltag 0~10V , Ac 0~10V , Ac	1~18V el or commtched or no ~10V, user ~10V, user hm full sca hm full sca je: 0~0.6V/	1~24V nunication pon-latched. select. Acc select. Acc le,user selele,user sele 2~15V,or d %, user sele 6, user sele	2~36V port. Preve curacy and curacy and ect.,Accura ect. Accurary contact lectable.	2~44V nts from ac linearity:± linearity:± cy and line cy and line ,user selec	5~66V djusting Vo 0.5% of rate 1% of rateo earity: ±1% earity:±1.5%	r by comm 5~88V ut below lined Vout.	5~110V mit.			5~660
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5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 Out Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 TTL high CV: TTL Dry conta	0.5~12V y front panectable , la 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko ical. Voltag 0~10V , Ac 0~10V , Ac (4~5V) -O high (4~5V) eact. Open:cical signal	1~18V el or commtched or not ~10V, user ~10V, user ~10V, user hm full sca hm full sca hm full sca le: 0~0.6V/ couracy:±1% curacy:±1% K, 0V-Fail ) source: 1 off , Short: or Open/Si	1~24V unication pon-latched.  select. Acc select. Select. Acc sele	2~36V port. Preve curacy and curacy and ect. Accura ry contact ectable. ectable. ectable. ectable to the curacy and curacy contact ectable. ectable curacy contact ectable. ectable curacy contact ectable.	2~44V nts from an linearity:± linearity:± cy and line cy and line user select ance. ~0.6V), sir able/Disa Remote, 4	5~66V djusting Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: cole in: 6V. ~5V or ope	r by comm 5~88V ut below lin ed Vout. I lout. of rated V. of rated I. loud. of rated I. loud. of rated I.	5~110V mit.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 Out Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator		0.5~10V Preset by User self 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0.5V or 0.	0.5-12V y front pannectable , la .0~5V or 0 .0~5V or 0 .0~5/10Ko .0~5/10Ko .0~5/10Ko .0~5/10Ko .0~5/10Ko .0~10V , Ac .0~10V ,	1~18V el or comm tched or no  ~10V, user ~10V, user ~10V, user hm full sca hm full sca hm full sca km full sca ye: 0~0.6V/ ccuracy:±1% K, 0V-Fail // y source: 1 off , Short: or Open/Si al: Off, Ren	1-24V unication pon-latched. select. Acc select. Acc select. Acc le user selet. le user selet. le user selet. select.	2~36V port. Preve curacy and curacy and curacy and ect. Accura ect. Accura ey contact ectable. ectable. eries resist TTL low (0 bitage at Et V or short: Maximum v	2~44V nts from an linearity:± linearity:± linearity:± cy and line cy and line nuser select ance. ~0.6V), sir able/Disa Remote, 4 oltage: 30'	5~66V  Jijusting Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: ole in: 6V. ~5V or ope V, maximur	r by comm 5~88V ut below lined Vout. Hout. of rated V. of rated I. lomA. n: Local. n sink curr	sout.  out.  out.  ent: 10mA.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control Indicator 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr 0~5V or t TTL high CV: TTL Dry conta By electr Open col	0.5-12V y front pannectable, la 0~5V or 0 0~5V or 0 0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko 0.0~5/10Ko ical. Voltag 0-10V , Acc (4-5V) -0 high (4~5V act. Open: ical signal illector, Loc	1~18V el or commtched or not ~10V, user ~10V, user ~10V, user hm full sca hm full sca hm full sca le: 0~0.6V/ couracy:±1% curacy:±1% K, 0V-Fail ) source: 1 off , Short: or Open/Si	1-24V unication pon-latched. select. Acc select. Acc select. Acc le user sele le user sele le user sele 2-15V, or d %, user see 500ohm si 10mA, CC: on. Max. vx or or t. 0-0.6° mote: On. h	2~36V port. Preve curacy and curacy and curacy and cect. Accura eact. Accura ry contact ectable. certes resist TTL low (0 pltage at Er V or short: Maximum v poders (coa	2~44V nts from an linearity:± linearity:± linearity:± cy and line cy and line nuser select ance. ~0.6V), sir able/Disa Remote, 4 oltage: 30'	5~66V  Jijusting Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: ole in: 6V. ~5V or ope V, maximur	r by comm 5~88V ut below lined Vout. Hout. of rated V. of rated I. lomA. n: Local. n sink curr	sout.  out.  out.  ent: 10mA.			5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming 4. Lout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or t 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/UVI	0.5-12V y front paniectable , la 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 0-10V , Acc 0-10V , Ac	1~18V el or comm tched or no ~10V, user ~10V, user ~10V, user hm full sca hm full sca he: 0~0.6V/ couracy:±1% couracy:±1% f, OV-Fail f) source: 1 off , Short: or Open/Si al: Off, Rer djust by seddjust by Ved	1-24V unication pon-latched. select. Acc s	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. ctable. rite low (0 politage at Et V or short: Maximum v poders (coa ncoder.	2~44V nts from an linearity:± linearity:± cy and line cy and line uuser select ance. ~0.6V), sir nable/Disa Remote, 4 oltage: 30' rse and fin	5~66V idjusting Vo 0.5% of rate 1% of ratecarity: ±1% arity: ±1.5% table logic.  k current: ole in: 6V5V or ope // maximur e adjustme	r by comm 5~88V ut below lin ed Vout. I lout. of rated V 6 of rated I 10mA. n: Local. n sink curr	sout.  out.  out.  ent: 10mA.	5~165V		5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming 4. Lout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele  0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/UVI On/Off, C	0.5-12V y front paniectable , la .0~5V or 0 .0~5V or 0 .0~5/10Ko .	1~18V el or comm tched or no ~10V, user ~10V, user ~10V, user hm full sca hm full sca he: 0~0.6V/ couracy:±1% couracy:±1% f, OV-Fail f) source: 1 off , Short: or Open/Si al: Off, Rer djust by seddjust by Ved	1-24V unication pon-latched.  select Acc sel	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. citable. ritle w (0 oltage at Er V or short: Maximum v oders (coa ncoder. uto, safe), f	2~44V nts from an linearity:± linearity:± cy and line	5~66V  jjusting Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: 'cle in: 6V. ~5V or ope V, maximur  e adjustme ontrol (CV)	r by comm 5~88V ut below lin ed Vout. I lout. of rated Vi 6 of rated I 10mA. n: Local. n sink curr unt selectal	5~110V mit. out. out. lout.	5~165V		5~660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control Indicator 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/UVI On/Off, C Address Re-start	0.5-12V y front pannectable , la 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0,0~5/10Ko 0,0~5/10Ko 0,0~5/10Ko 0,0~5/10Ko ical. Voltag 0~10V , Acc (4~5V)-0 high (4~5V)-0 high (4~5V) tr manual a L manual a Dutput on/o selection b modes (au	1~18V el or comm tched or no  ~10V, user  ~10V, user  ~10V, user  hm full sca hm full sca hm full sca pe: 0~0.6V/ curacy:±19 curacy:±19 fv, Source: 1  ff, Short: or Open/Sl al: Off, Rer  djust by ve djust by ve dff, Re-start yv Voltage ( tomatic rese	1-24V unication pon-latched. select. Acc select. Acc select. Acc le user selet le user selet le user selet 2-15V, or d/s, user sele 500ohm si 10mA, CC: on. Max. vv. or or 0.0° mote: On. hoperate encott. Adjust e modes (at or current) start, safer	2~36V port. Preve curacy and curacy and curacy and cect. Accura eact. Accura eact. Accura ry contact ectable. ceries resist TTL low (0 pltage at Er V or short: Maximum v poders (coa ncoder. Into, safe), f adjust enc node).	2~44V Ints from an Ilinearity:± Ilinearity:± cy and line cy and line cy and line cy and lone ance. ~0.6V), sir able/Disa Remote, 4 oltage: 30' rse and fin	5~66V  jjusting Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: 'cle in: 6V. ~5V or ope V, maximur  e adjustme ontrol (CV)	r by comm 5~88V ut below lin ed Vout. I lout. of rated Vi 6 of rated I 10mA. n: Local. n sink curr unt selectal	5~110V mit. out. out. lout.	5~165V		5-660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 ANALOG PROGRAMMING AND MONITORING 1. Voltage Programming 2. lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or t 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ Iou OVP/UVI On/Off, C Address Re-start, Baud rate	0.5-12V y front panectable, la 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V ,Acc 0~10V ,Acc (4-5V) -00high (4-5V act Open:cical signal illector, Loc tt manual a L manual a Dutput on/o selection b modes (au e selection	1~18V el or commtched or not communicate of not com	1-24V unication pon-latched. select. Acc s	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. ctable. rife low (0 pltage at Et or short: Maximum v poders (coa ncoder. uto, safe), f adjust enc node). uto and 19,2 u	2~44V nts from an linearity:± linearity:± cy and line	5~66V  Jijusting Vo  0.5% of rate 1% of ratecarity: ±1% arity: ±1.5% table logic.  k current: ole in: 6V5V or ope //, maximur  e adjustme  ontrol (CV) ber of addr	r by comm 5~88V ut below lin ed Vout. I lout. of rated Vi 6 of rated I 10mA. n: Local. n sink curr unt selectal	5~110V mit. out. out. lout.	5~165V		5~660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control Indicator 12. Local/Remote analog control Indicator		0.5~10V Preset by User sele  0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/UVI On/Off, C Address Re-start Baud rate Voltage:	0.5-12V y front panectable, la .0~5V or 0 .0~5V or 0 .0~5/10Ko .0~	1~18V el or comm tched or no ~10V, user ~10V, user ~10V, user ~10V, user hm full sca her full sca le: 0~0.6V/ couracy:±1% couracy:±1% for Open/Si al: Off, Rer djust by ve djust by Vo fif, Re-start by Voltage (  tomatic ree: ~1200.2400 couracy: 0.0	1-24V unication pon-latched.  select Acc sel	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. citable. ritle w (0 pitage at Ei V or short: Maximum v poders (coa ncoder. uto, safe), f adjust enc node). 0 and 19,2 d output Vc	2~44V nts from an linearity:± linearity:± cy and line	5~66V  justing Vo  0.5% of rate 1% of ratec arity: ±1% arity:±1.5% table logic.  k current: 'cle in: 6V5V or ope /, maximur  e adjustme ontrol (CV) ber of addr  ount.	r by comm 5~88V ut below lin ed Vout. I lout. of rated Vi 6 of rated I 10mA. n: Local. n sink curr unt selectal	5~110V mit. out. out. lout.	5~165V		5~660
5. Output Under Voltage Limit 6. Over Temp. Protection  1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator  1.5 FRONT PANEL 1. Control functions		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or i 0~5V or i TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/UVI On/Off, C Address Re-start i Baud rate Voltage: Current:	0.5-12V y front panuectable , la .0~5V or 0 .0~5V or 0 .0~5V or 0 .0~5/10Ko .0~5/10Ko .0~5/10Ko .0~10V , Ac .0~10V	1~18V el or commtched or not community to the dor not community to the	1-24V unication pon-latched.  select. Acc select. Select. Acc sele	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. citable. refres resist TTL low (0 bitage at Er V or short: Maximum v coders (coa ncoder. ito, safe), f adjust enc node). 10 and 19,2 d output Vc output cut	2~44V Ints from an Ilinearity:±	5~66V  dijusting Vo  0.5% of rate  0.5% of rate  carity: ±1%  arity:±1.5%  table logic.  k current:  cle in: 6V.  ~5V or ope  V, maximur  e adjustme  control (CV)  ber of addr  curt.  curt.	r by comm 5~88V ut below lie ed Vout. I lout. of rated V. of rated I. n: Local. n sink curr int selectal co CC), Go esses:31.	is to local co	5~165V		5-660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. Iout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions 2. Display 3. Indications		0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or t 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/IVVI On/Off, C Address Re-start Baud rate Voltage,	0.5-12V y front panectable, la .0~5V or 0 .0~5V or 0 .0~5V or 0 .0~5/10Ko .0	1~18V el or comm tched or no ~10V, user ~10V, user ~10V, user ~10V, user hm full sca her full sca le: 0~0.6V/ couracy:±1% couracy:±1% for Open/Si al: Off, Rer djust by se djust by Vo fif, Re-start by Voltage () tomatic ree: ~1200.2400 couracy: 0.0	1-24V unication pon-latched.  select. Acc select. Select. Acc sele	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. citable. refres resist TTL low (0 bitage at Er V or short: Maximum v coders (coa ncoder. ito, safe), f adjust enc node). 10 and 19,2 d output Vc output cut	2~44V Ints from an Ilinearity:±	5~66V  dijusting Vo  0.5% of rate  0.5% of rate  carity: ±1%  arity:±1.5%  table logic.  k current:  cle in: 6V.  ~5V or ope  V, maximur  e adjustme  control (CV)  ber of addr  curt.  curt.	r by comm 5~88V ut below lie ed Vout. I lout. of rated V. of rated I. n: Local. n sink curr int selectal co CC), Go esses:31.	is to local co	5~165V		5-660
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.Vout Voltage Programming 2. Iout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions 2. Display 3. Indications 1.6 Interface RS232&RS485 or Optional		0.5~10V Preset by User sele  0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or t 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/IVVI On/Off, C Address Re-start t Baud rate Voltage, Current: Voltage,	0.5-12V y front panectable, la .0~5V or 0 .0~5V or 0 .0~5V or 0 .0~5/10Ko .0	1~18V el or commitched or not commitched or open/Slal: Off, Rendigible of commitched or open/Slal: Off, Rendigible of commitched or commit	1-24V unication pon-latched.  select. Acid s	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. criable. criable. diage at Er V or short: flaximum v coders (coa ncoder. uto, safe), f adjust enc node). 00 and 19,2 d output cur oldback, Lo	2~44V Ints from an Ilinearity:± Ilinearity:± Ilinearity:± cy and line cy and l	5~66V  dijusting Vo  0.5% of rate  0.5% of rate  carity: ±1%  carity: ±1.5%  carity: ±1.5%  carity: ±0e in: 6V.  ~5V or ope  V, maximur  e adjustme  control (CV)  ber of addr  cunt.  c	r by comm 5~88V ut below lined Vout. I lout. I lout. of rated Vous of rated In the lout. In Local. In sink current selectation of CC), Go esses:31.	j 5~110V mit.  out. lout. lout.  pent: 10mA. ble).	5~165V	5-330V	
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.4 ANALOG PROGRAMMING AND MONITORING 1. Vout Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming 4. Lout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions 1.6 Interface RS232&RS485 or Options Model	al GPII	0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or t 0~5V or t TTL high CV: TTL Dry conta By electr Open col  Vout/ lou OVP/IVVI On/Off, C Address Re-start Baud rate Voltage,	0.5-12V y front panectable, la .0~5V or 0 .0~5V or 0 .0~5V or 0 .0~5/10Ko .0	1~18V el or commtched or not community to the dor not community to the	1-24V unication pon-latched.  select. Acc select. Select. Acc sele	2~36V port. Preve curacy and curacy and curacy and curacy and cut. Accura ry contact ectable. citable. refres resist TTL low (0 bitage at Er V or short: Maximum v coders (coa ncoder. ito, safe), f adjust enc node). 10 and 19,2 d output Vc output cut	2~44V Ints from an Ilinearity:±	5~66V  dijusting Vo  0.5% of rate  0.5% of rate  carity: ±1%  arity:±1.5%  table logic.  k current:  cle in: 6V.  ~5V or ope  V, maximur  e adjustme  control (CV)  ber of addr  curt.  curt.	r by comm 5~88V ut below lie ed Vout. I lout. of rated V. of rated I. n: Local. n sink curr int selectal co CC), Go esses:31.	is to local co	5~165V		600
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5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1.Vout Voltage Programming 2. Iout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions 16. Interface RS232&RS485 or Optioni Model 17. Remote Voltage Programming (16 bit) 18. Resolution (0.012% of Vo Rated) 19. Accuracy (0.05% Vo Rated+0.05% of Vo Actual Output) 19. Resolution (0.012% of lo Rated) 19. Accuracy (0.2% of lo Rated+0.1% of lo Actual Output) (*13) 20. Readback Voltage	V mV mV	0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr 0~5V or 0 TTL high CV: TTL Dry conte By electr Open col Vout/ lou OVP/UVI On/Off, C Address Re-start Baud rate Voltage: Current: Voltage, 3 Interfa 8 0.96 8	0.5-12V y front panectable, la 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0.0~5/10Ko 0.0~5/1	1~18V el or commitched or no tiched or no tiched or no mitched or no mit	1-24V unication pon-latched. select. Acc s	2-36V port. Preve curacy and curacy and curacy and curacy and cet. Accura ect. Accura ext.	2~44V Ints from an  linearity:± linearity:± linearity:± locy and line cy and l	5~66V  jjusting Vo  0.5% of rat 1% of rate 2arity: ±1% 2arity: ±1% 2arity: ±1% 2arity: ±1% 2ble in: 6V -5V or ope 7, maximur  e adjustme  control (CV) ber of addr  bunt  unt.  tt On, Fron  60  7.2 60	r by comm 5~88V ut below lin ed Vout. I lout. I lout. of rated V. of rated I. of rated I. consists current int selectal consists current t Panel Lo  80  9.6 80	sent: 10mA.  ble).  ck, CVCC.  100  4.0	150 18 150	300 36 300	6000 72 6000
5. Output Under Voltage Limit 6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITORING 1. Voltage Programming 2. Lout Voltage Programming (*13) 3. Vout Resistor Programming (*13) 5. On/Off control (rear panel) 6. Output Current monitor (*13) 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 15. FRONT PANEL 1. Control functions 16. Interface RS232&RS485 or Option Model 17. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) Resolution (0.012% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated+0.1% of lo Actual Output) (*13)	V mV mV	0.5~10V Preset by User sele 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By electr 0~5V or 0 TTL high CV: TTL Dry conte By electr Open col Vout/ lou OVP/UVI On/Off, C Address Re-start Baud rate Voltage: Current: Voltage, 3 Interfa 8 0.96 8	0.5-12V y front panectable, la 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0.0~5/10Ko 0.0~5/1	1~18V el or commitched or no tiched or no tiched or no mitched or no mit	1-24V unication pon-latched. select. Acc select. Acc select. Acc select. Acc select. Acc le. user selet. Le. user selet. Selet. Selet. Acc select. Acc select. Acc select. Acc le. user selet.	2-36V port. Preve curacy and curacy and curacy and curacy and cet. Accura ect. Accura ext.	2~44V Ints from an  linearity:± linearity:± linearity:± locy and line cy and l	5~66V  jjusting Vo  0.5% of rat 1% of rate 2arity: ±1% 2arity: ±1% 2arity: ±1% 2arity: ±1% 2ble in: 6V -5V or ope 7, maximur  e adjustme  control (CV) ber of addr  bunt  unt.  tt On, Fron  60  7.2 60	r by comm 5~88V ut below lin ed Vout. I lout. I lout. of rated V. of rated I. of rated I. consists current int selectal consists current t Panel Lo  80  9.6 80	sent: 10mA.  ble).  ck, CVCC.  100  4.0	150 18 150	300 36 300	600

- \*1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
- \*2: Minimum current is guaranteed to maximum 0.4% of rated output current.
- \*3: For cases where conformance to various safety standards (UL, IEC, etc..) is required, to be described as 190-240Vac (50/60Hz) for single phase and 3-Phase 208V models, and 380~415Vac (50/60Hz) for 3-Phase 400V models.

48

1600

8

80

mΑ

mΑ

mV

mV

39.6

1320

10

100

19.8

660

20

26.4

880

15

150

13.2

440

30

300

- \*4: Single-Phase and 3-Phase 208V models: At 208Vac input voltage, 3-Phase 400V: At 380Vac input voltage. With rated output power.
  \*5: Not including EMI filter inrush current, less than 0.2mSec.

Accuracy (0.3% of lo Rated+0.1% of lo Actual Output) (\*13)

- \*6: Single-Phase and 3-Phase 208V models: 170~265Vac, constant load. 3-Phase 400V models: 342~460Vac, constant load.
- 800 \*7: From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.

5.0

168

80

4.0

132

100

1000

\*8: For 8V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured

2.6

88

150

1500

0.7

22

600

6000

1.3

44

300

3000

- $^\star 9$ : From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- \*10:From 90% to 10% of Rated Output Voltage.

10.2

340

40

400

6.6

220

60

600

- \*11: For load voltage change, equal to the unit voltage rating, constant input voltage.
- \*12:For 8V~15V models the ripple is measured from 2V to rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated
- \*13: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.

4. Readback Current Resolution (0.012% of lo Rated )

5. OVP/UVL Programming Resolution (0.1% of Vo Rated)

Accuracy (1% of Vo Rated)

### General Specifications Genesys™ 3.3kW

2.1 INPUT CHARA	CTERISTICS	GEN	8-400	10-330	15-220	20-165	30-110	40-85	60-55	80-42	100-33	150-22	300-11	600-5.5
1. Input voltage/fre		Single Ph	ase,230V r	nodels: 17	0~265Vac,	47~63Hz								
		VAC	3-Phase,	208V mode	els: 170~26	65Vac, 47~6	3Hz							
			3-Phase,	400V mode	els: 342~46	60Vac, 47~6	3Hz							
2. Maximum	Single Phase,230V models:		24	24	24	23	24	23	23	23.5	23	23	23	23
Input current at 100% load	3-Phase, 208V models:	Α	14.5	14.5	14.5	14.5	14	14.5	13.6	14	13.7	13.7	13.8	13.9
at 100 /6 10au	3-Phase, 400V models:		7.2	7.2	7.2	7.2	7	7.2	6.8	7	6.8	6.8	6.9	7
<ol><li>Power Factor (T</li></ol>	yp)		Single Ph	ase models	: 0.99@23	0Vac, rated	l output pov	ver. 3-Phas	se models:	0.94@208	/380Vac, rat	ed output p	ower.	
4. Efficiency (*4)		%	82	84	84	86	86	88	88	88	88	88	88	87
5. Inrush Current (*5)			Single-Phase and 3-Phase 208V models: Less than 50A											
		А	3-Phase	3-Phase 400V models: Less than 20A										
<ol><li>Hold-up time (Ty</li></ol>	/p)	mS	10mSec f	10mSec for Single-Phase and 3-phase 208V models, 6mSec for 3-Phase 400V models. Rated output power.										

#### 2.2 POWER SUPPLY CONFIGURATION

Parallel Operation	Up to 4 identical units in master/slave mode with parallel current summing (Advanced Parallel)
2. Series Operation	Up to 2 identical units. with external diodes. 600V Max to Chassis ground

#### 2.3 ENVIRONMENTAL CONDITIONS

Operating temp	0~50 °C, 100% load.
2. Storage temp	-30~85°C
3. Operating humidity	20~90% RH (non-condensing).
4. Storage humidity	10~95% RH (non-condensing).
5. Vibration	MIL-810F, method 514.5, The EUT is fixed to the vibrating surface.
6. Shock	Less than 20G , half sine , 11mSec. Unit is unpacked.
7. Altitude	Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000m, Alternatively, derate maximum ambient temp. by 1°C/100m above 2000m. Non operating: 40000ft (12000m).
8. RoHS Compliance	Complies with the requirements of RoHS directive.

#### 2.4 EMC

1.Applicable Standards:	
2.ESD	IEC1000-4-2. Air-disch8KV, contact disch4KV
3. Fast transients	IEC1000-4-4. 2KV
4. Surge immunity	IEC1000-4-5. 1KV line to line, 2KV line to ground
5. Conducted immunity	IEC1000-4-6, 3V
6.Radiated immunity	IEC1000-4-3, 3V/m
7. Magnetic field immunity	EN61000-4-8, 1A/m
8. Voltage dips	EN61000-4-11
9. Conducted emission	EN55022A, FCC part 15-A, VCCI-A.
10. Radiated emission	EN55022A, FCC part 15-A, VCCI-A.

#### 2.5 SAFETY

1.Applicable standards:	CE Mark, UL60950,EN60950 listed. Vout<40V:Output is SELV , IEEE/Isolated analog are SELV.						
	40 <vout<400v: analog="" are="" hazardous,="" ieee="" is="" isolated="" output="" selv.<="" td=""></vout<400v:>						
	400 <vout<600v:output analog="" are="" hazardous,="" ieee="" is="" isolated="" not="" selv.<="" td=""></vout<600v:output>						
2.Withstand voltage	Vout::40V models :Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.						
	40 <vout<100v 1min,="" 1min.<="" 2600vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout<100v>						
	Hazardous OutputSELV: 1900VDC 1min, Hazardous Output-Ground:1200VDC 1min. Input-Ground: 2828VDC 1min.						
	100 <vout<600v 1min,="" 1min.<="" 4000vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout<600v>						
	Hazardous OutputSELV: 3550VDC 1min. Hazardous Output-Ground:2670VDC 1min. Input-Ground: 2828VDC 1min.						
3.Insulation resistance	More than 100Mohm at 25°C , 70% RH.						

#### 2.6 MECHANICAL CONSTRUCTION

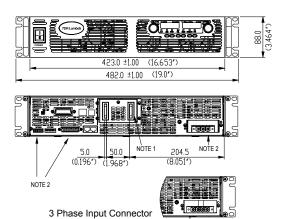
2.0 MECHANICAL CONSTRUCTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 16.65in, H: 3.46in, D: 17.42in (excluding connectors, encoders, handles, etc.)
3. Weight	13 kg.
4. AC Input connector (with Protective Cover)	Single Phase,230V models, Power Combicon PC 6-16/3-GF-10,16 series, with Strain relief.
	3-Phase, 208V & 400V models, Power Combicon PC 6-16/4-GF-10,16 series, with Strain relief.
5.Output connectors	8V to 100V models: Bus-bars (hole Ø 10.5mm). 150V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-7.62

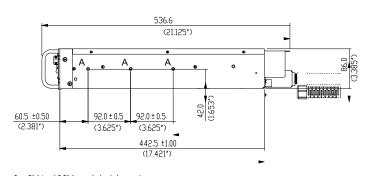
#### 2.7 RELIABILITY SPECS

1 4 144 4	1 =
I 1. Warranty	I 5 years.
1. Waltality	o yeare.

All specifications subject to change without notice.

### Outline Drawing Genesys™ 3.3kW Units





#### NOTE

- 1. Bus bars for 8V to 100V models (shown)
  Wire clamp connector for 150V to 600V models
- 2. Plug connectors included with the power supply
- 3. Chassis slides mounting holes #10-32 marked "A" **GENERAL DEVICES** P/N: C-300-S-116 or equivalent

### 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

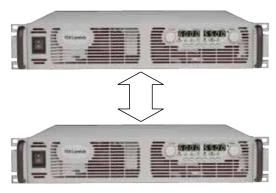
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

### 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 with or without Multi-Drop option.







P/N: IEMD

### **Programming Options (Factory installed)**

#### **New IEEE Multi-Drop Interface**

- Allows IEEE Master to control up to 30 (Multi-Drop equipped) 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

#### **New Multi-Drop Slave Option**

• Slaves need to be equipped with the MD Slave (RS-485) option

### **Isolated Analog Programming**

- Four Channels to Program and 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% Power supply Voltage and Current Monitoring Accuracy ±1.5%

#### LAN Interface **LX** Compliant to Class C P/N: LAN

- Meets all LXI-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

USB Interface P/N: USB

- Allows Serial Connection to USB Port on computer
- Serial commands same as (standard) RS-232/RS-485 Interface

5 Genesys™ GEN 3.3kW 2U

P/N: MD

P/N: IS510

P/N: IS420

## Power Supply Identification / Accessories How to order

**GEN** 400 **Factory Options** AC Input options Series Output Output Option: : IEMD 1P230 (Single Phase 230VAC) Name Voltage Current MD 3P208 (Three Phase 208VAC) (0~8V)(0~400A)**IS510** 3P400 (Three Phase 400VAC) IS420 LAN

**USB** 

#### Models 3.3kW

	Output	Output	Output
Model	Voltage	Current	Power
	VDC	(A)	(W)
GEN 8-400	0~8V	0~400	3200
GEN 10-330	0~10V	0~330	3300
GEN 15-220	0~15V	0~220	3300
GEN 20-165	0~20V	0~165	3300
GEN 30-110	0~30V	0~110	3300
GEN 40-85	0~40V	0~85	3400

	Output	Output	Output
Model	Voltage	Current	Power
	VDC	(A)	(W)
GEN 60-55	0~60V	0~55	3300
GEN 80-42	0~80V	0~42	3360
GEN 100-33	0~100V	0~33	3300
GEN 150-22	0~150V	0~22	3300
GEN 300-11	0~300V	0~11	3300
GEN 600-5.5	0~600V	0~5.5	3300

Factory options P/N

RS-232/RS-485 Interface built-in Standard
GPIB (Multi-Drop Master) Interface IEMD
Multi-Drop Slave Interface MD
Voltage Programming Isolated Analog Interface IS510
Current Programming Isolated Analog Interface IS420
LAN Interface LAN
USB Interface USB

### 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 Communication Cable Power Supply Connector	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-25F Shield Ground L=2m 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<sup>™</sup> power supplies.

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

<sup>\*</sup> Included with power supply



Also Available Genesys™
1U Half Rack 750W
1U 750W/1500W
2U 5kW
3U 10/15kW

### TDK·Lambda

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tmetrix.com

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