



Programmable DC Power Supplies 3.3 kW in 2U Built-in RS-232 & RS-485 Interface IEEE488.2 SCPI (GPIB) optional





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*The Genesys*TM 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 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
- NEW! Global Commands for Serial RS-232/RS-485 Interface
- Auto-Re-Start / Safe-Start: user selectable
- Last-Setting Memory
- High Resolution 16 bit ADCs & DACs
- Low Ripple & Noise
- Front Panel Lock selectable from Front Panel or Software
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Parallel Operation with Active Current Sharing; up to four identical units.
- NEW! Parallel Master / Slave. Current Sum, Program & Monitor via the Master
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)
- Reliable Modular and SMT Design
- 19" Rack Mount capability for ATE and OEM applications
- Optional Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)
- Optional IEEE 488.2 SCPI (GPIB) Interface
- NEW! Optional Multi-Drop IEEE Interface and Optional Multi-Drop (RS-485) Slave Interface.
- LabView[®] and LabWindows[®] Drivers

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



Applications

Genesys™ power supplies have been designed to meet the demands of a wide variety of applications. System Designers will appreciate new features such as Global and Single Byte Commands that will simplify programming and provide faster test sequence execution.

Test Systems can be more noise immune by using the Optional IEEE Multi-Drop Interface with communication to optional Multi-Drop Slaves over RS-485 Interface.

Higher power systems can be configured with up to four 3.3kW modules. Each module is 2U with zero space between them (zero stack).

Flexible configuration is provided by the complete Genesys™ Family: 1U 750W Half-Rack, 1U 750W and 1500W Full-Rack. All are identical in Front Panel, Rear Panel Analog, and all Digital Interface Commands.

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

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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 and sets Address and Baudrate.
- 4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Reliable encoder controls Output Current and sets baud rate.
- 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 • Foldback Mode Remote Mode
- Preview Settings Output On
- 8. Pushbuttons allow flexible user configuration
 - · Coarse and Fine adjustment of Output Voltage/Current
 - Preview settings and set Voltage/Current with Output OFF, Front Panel Lock
 - Parallel Master/Slave
 - Set OVP and UVL Limits
 - Set Current Foldback
 - Local/Remote 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) or Isolated Analog Programing Interface.

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Genesys ™ 3.3kW Specifications

2 Attest Output Content (2) A 400 330 200 110 65 57 42 33 22 11 25 Attest Output Press W 3500	.0 MODEL	5.3KVV 2	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
Alteriol Preser W 3200	1.Rated output voltage(*1)		V	8	10	15	20	30	40	60	80	100	150	300	600
CONSTANT VOLTAGE MODE VICE	2.Rated Output Current(*2)		A	400	330	220	165	110	85	55	42	33	22	11	5.5
Like Line seguration (D1% of rated Vac 2mV)(*m) mV 2.8 3 3 5 4 5 6 8 10 12 17 32 1 Lingspin and noise p- 200Hz (*g) mV 60	3.Rated Output Power		W	3200	3300	3300	3300	3300	3400	3300	3360	3300	3300	3300	3300
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7. Tange stability 0.65% of rated Votor over 35m interval following 35m incurses water-up. Constant Blowing power 0n. 100 10		e									5	5	5	5	5
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No-bad (*10) mS 500 600 1000					1	100	80	100							
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Construction Construction Construction Construction 2 CONSTANT CURRENT MODE Issee than influence including 100.1°. Or and to be show (100 including 100.1°.		No-load (*10)													4000
Less than 1ndice for models up to and including 100V. Zinse for models above 100V 1.Max Line equilation (201% of rated (b-2mA)(T1) mA 42 35 24 18.5 10 5.7 5 6.2 5.3 4.2 3.1 2 2.Max Line equilation (201% of rated (b-2mA)(T1) mA 1300 000 4.00 300 200 200 100 00 6.0 5.0 <t< td=""><td>11.Transient response time</td><td>I</td><td>ms</td><td>Time for o</td><td>output volta</td><td>age to reco</td><td>ver within (</td><td>0.5% of its</td><td>rated outp</td><td>ut for a load</td><td>d change 1</td><td>0-90% of r</td><td>ated output</td><td>t</td><td></td></t<>	11.Transient response time	I	ms	Time for o	output volta	age to reco	ver within (0.5% of its	rated outp	ut for a load	d change 1	0-90% of r	ated output	t	
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Bit Bigget runs mA 1300 660 440 300 250 200 100 120 90 60 50 Class regulation thermal dift Lass than 0.2% or inded output current lower 30 minutes warm-up. Contact the index of			mA	85	71	49		27			13.4			7.2	6.1
4Lada regulation thermal diff. Less than 0.1% of raids oupput current over 30 minutes Namm-up. 5. Temp. cellification PPM2C2 200PPMC from raids output current. Unlikes Namm-up. Constant line, load & temperature. 3. Temp. cellification Less than 0.2% of raids output current over 30 minutes Namm-up. Constant line, load & temperature. 3. PROTECTIVE FUNCTIONS 6-105% Constant Current Constant line, load & temperature. 3. Optimize State Output but down when power supply AC input leogies for (AC III buttes Valler of the communication port communication port on the supply of tange temperature. Set 50 (5) (5) (5) (5) (5) (5) (5) (5) (5) (5)				1300	660	440	300	250	200	100	120				10
Temp. collision OPP/MC College Number 1 and output current. Including 30 minutes warm-up. Constant line, load 3 temperature. Units and temperature. 2.Warm-up diff. Less than 22% of table output current over 30 minutes warm-up. Constant line, load 3 temperature. Use Stand 22% of table output current over 30 minutes solewing power 0n. 1. OCP -															
3. Temp: stability 0.05% of rated load over 8/ms. Interval following 30minutes warmup. Constant line, load & temperature. 1.3. PROFECTIVE FUNCTIONS 1.0 CP 0. CP parameter function of the stability of			PPM/∂C												
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I. OCP I.O. COP I.O. Constant Current I.O. Correct State S										3,-1.10	-				
2 OCP Foliaback Output strut down when power supply change from CV to CC. User selectable. 3 OVP type Inverter strut-down, manual reset by AC input recycle or by OUT buttom or by communication port communication port. 3. OVP type 1-18V 1 1-24V 2-35V 2 -44V 5-66V 5-88V 5-16V 5-85V 5-33V 5-4 3. OVE traps. Freests transmission port communication port. Prevents from adjusting Vout below limit. 5-83V 5-16V 5-33V 5-4 3. Over Traps. Protection User selectable. Jatched or non-latched. 4 4. NALCO FROCRAMING ADM DONITORING 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity: 1% of rated lout. 5 1. Vout Voltage Programming 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity: 1% of rated lout. 5 3. Over Tragramming 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity: 1% of rated lout. 5 3. Over Tragramming 0-100%, 0-5V or 0-10V, accuracy: 1%, user selectable. 5 3. Over Tragramming 0-500 or 0-10V, accuracy: 1%, user selectable. 5 3. Over Tragramming 0-100%, accuracy: 1%, user selectable. 5 3. Over Tragramming 0-10V, accuracy: 1%, user selectable. 5 3. Over Tragramming 0-10V, accuracy: 1%, user selectable. 5 3. Over Tragramming					Construct										
3. OVP type Inverter shut-down, manual reset by AC input recycle or Vp OUT button or by communication port command. 5. Ovp type inter D9-170 (1) G-172 (1) 1-24V (2) V 2-3V (2) 4-24V (5-6V (2) S-80 (2) -170V (5-165V (5-30V (5) -165V (5) -100) (5-165V (7) -100) (5-16V (7) -100									01/44 00	Llees I	table				
0. OVP trip point 0.5-107 0.5-127 1-180 1-247 2-380 2-440 5-66V 5-107 5-130 5-330 5-45 3. Over Temp. Protection User selectable, latched or non-latched. Januard Centrolog 1 5-107 5-507															
5. Output Under Voltage Linit Preset by front panel or communication port. Prevents from adjusting Vout below limit. 5. Over Temp. Profection User selectable, latitoder or non-latitode 4 ANLOG PROGRAMMING AND MONITORING 1 1 Noul Voltage Programming 0 - 100%, 0 - 5V or 0 - 10V, user select. Accuracy and linearity: a 5% of rated Vout. 2 lout Voltage Programming 0 - 100%, 0 - 5V or 0 - 10V, user select. Accuracy and linearity: a 1% of rated Vout. 3. Output Voltage Programming 0 - 100%, 0 - 5V or 0 - 10V, user select. Accuracy and linearity: a 1% of rated Vout. 3. Output Voltage International Decision 0 - 100%, 0 - 5V or 0 - 10V, accuracy: a 11% user selectable. 3. Output Voltage monitor 0 - 5V or 0 - 10V, Accuracy: a 11% user selectable. 0. Crabus Voltage International Decision 0 - 5V or 0 - 10V, Accuracy: a 11% user selectable. 0. Crabus Voltage at Enables 0 - 5V or 0 - 10V, Accuracy: a 11% user selectable. 0. Crabus Voltage at Enables 0 - 5V or 0 - 10V, Accuracy: a 11% user selectable. 0. Crabus Voltage at Enables 0 - 5V or 0 - 10V, Accuracy: a 11% user selectable. 0. Vout Voltage Nortae: Openroft, Short: on Max: voltage at Enables. 0 - 500 or open: Local. 10. Enable/Disable in: 6V. 111. Local/Remote analog control Indicator 0 pen collectorical signal or Open/Short: 0 - 6V or open															
S. Over Temp. Protection User selectable , latched or non-latched. 1 MANLC & PROGRAMMING AND MONTORING Instruction of the selection of													5~165V	5~330V	5~660\
A NALCO PROGRAMMING AND MONTORING 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity::15% of rated Vout. Loud Voltage Programming 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity::15% of rated Vout. Jour Botage Programming 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity::15% of rated Vout. Jour Besistor Programming 0-100%, 0-5V ICM/m hull scale.user select. Accuracy and linearity::15% of rated Vout. Jour Botage Programming 0-100%, 0-5V ICM/m hull scale.user select. Accuracy and linearity::15% of rated Vout. Jour Botage Programming 0-100%, 0-5V ICM/m hull scale.user select. Accuracy and linearity::15% of rated Vout. Jour Botage Programming 0-50 or 0-10V, Accuracy::15% user select.able. Jour Control (rear panel) 0-50 or 0-10V, Accuracy::15% user select.able. Jour Control (rear panel) 0-50 or 0-10V, Accuracy::15% user select.able. Jour Control (rear panel) 0-50 or 0-10V, Accuracy::15% user select.able. Jour Control (rear panel) 0-50 or 0-10V, Accuracy::15% user select.able. Jour Control (rear panel) 0-50 or 0-10V, Accuracy::15% user select.able. Jour Dot matcl: Open::00:30. 0.50 or 0-10V, Accuracy::00:30, resetter select.able. Jour Dot matcl: Open::00:30. 0.50 or 0-10V, Accuracy::05% or rated value. Jour Dot matcl: Open::00:30.								ort. Preve	nts from a	djusting Vo	ut below lir	mit.			
1 vout Voltage Programming 0-100%, 0-5 V or 0-10V, user select. Accuracy and linearity: 15% of rated Vout. 2 vout Voltage Programming 0-100%, 0-5 V or 0-10V, Accuracy and linearity: 15% of rated vout. 3 vout Resistor Programming 0-100%, 0-5 V or 0-10V, Accuracy and linearity: 15% of rated vout. 5 On/Of Control (rear panel) By electrical. Voltage: 0-0 RV2-15V or dry contact. user selectable: 5 On/Of Control (rear panel) By electrical. Voltage: 0-0 RV2-15V or dry contact. User selectable: 7 Output Voltage monitor 0-50 V or 0-10V, Accuracy: 15%, user selectable: 7 Output Voltage monitor 0-50 V or 0-10V, Accuracy: 15%, user selectable: 8 Zoward: Stapp (X Signal) TT, high (4-5V) Source: 10mA, C2: TTL isor (0-6V), sink current: 10mA. 10. Enable@libiable Dry contact. Open:01% Short: 0-08V or short. Remote: A-5V or open: Local. 11. Local/Remote analog control By electrical signal or Open/Short: 0-06V or short. Remote: A-5V or open: Local. 12. Local/Remote analog control By electrical signal or Open/Short: 0-06V or short. Remote: A-5V or open: Local. 13. Control functions Vout //VUV. manual adjust by separate encoders (coarse and fine adjustment selectable). 0VPUV. Turnaul adjust by Volt. Adjust encoder. Control. Address selection: 1200,2400,4800,800. Addresses:31. Rest	6. Over Temp. Protection			User sel	ectable, lat	tched or no	on-latched.								
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2.Lou Vibrage Programming 0 - 100%, 0 - 5V tor C-10V, user select. Accuracy and linearity: 1% of rated lout.				0~100%.	0~5V or 0-	~10V, user	select. Acc	curacy and	linearity:±	0.5% of rat	ed Vout.				
3 Vout Resistor Programming 0-100%, 0-5710Kohm full scale, user select. Acouracy and linearity: 15% of rated Vout. 4 Jour Resistor Programming 0-100%, 0-5710Kohm full scale, user select. Acouracy and linearity: 15% of rated lout. 5 On/OT control (rear pane) By electrical. Voltage: 0-0.6V/2-15V/or dry contact, user select. Acouracy and linearity: 15% of rated lout. 7 Output Unitage monitor 0-5V or 0-10V. Accuracy: 15%, user select. Acouracy and linearity: 15% of rated lout. 7 Output OK signal TTL high (4-5V). 6V/Fall StoOmb werks resistance. 8. OW/C0 Indicator 0.5V or 0-10V. Accuracy: 15%, user select. Also: 0-0.6V), sink current: 10mA. 10. Enable/Disable Dry contact. Opencion. 5Nort: on. Maximum voltage: 30V, maximum sink current: 10mA. 11. Local/Remote analog control Indicator Open collector, Local: Off, Remote: Con. Maximum voltage: 30V, maximum sink current: 10mA. 12. Local/Remote analog control Indicator Open collector, Local: Off, Remote: Con. Maximum voltage: 30V, maximum sink current: 10mA. 13. FRONT PANEL Vout/ Uot manual adjust by volt. Adjust encoder. 14. Control functions Vout/ Uot manual adjust by volt. Adjust encoder. 0-10(ff, Output on/off, Re-start modes (auto adjust encoder. -0/0(ff, Output on/off, Re-start modes (auto adjust encoder. 0-10(ff, Output on/off, Re-start modes (automatic restart, safe mode). -0/0/0/0/0/0/0/0/0/0/0/0/0/	2. Jout Voltage Programming														
4.but Resistor Programming 0-100%, 0-5/10Kohm full scale, user select. Abourday, and linearity: 1.5% of rated lout. 5.0v0ft control (rear pane) By electrical, Voltage: 0-0-8V/2-15/Vor dry contact, user selectable. 6.0uput Uurrent montor 0-5V or 0-10V. Accuracy: 1%, user selectable. 7.0uput Voltage montor 0-5V or 0-10V. Accuracy: 1%, user selectable. 8.Power Suppt/ OK signal TTL high (4-5V) 20K. 9V-Fall 500chm sentes reselectable. 9.CV/CC Indicator CV: TTL high (4-5V) 20K. 9V-Fall 500chm sentes reselectable. 10. Enable/Disable Dry contact. Open.off. Short: on. Max. voltage at Enable/Disable in: 6V. 11. Local/Hemote analog control By electrical signal or Open/Short: D-0.6V or short. Remote, 4-5V or open: Local. 12. Local/Hemote analog control Indicator Open collector, Local: OR. Remote, 4-5V or open: Local. 12. Local/Hemote analog control Indicator Over Collector, Local: OR. Remote, 16, Joidback control (CV to CC), Go to local control. 14. Control functions Vout/ lout manual adjust by separate encoder: (coarse and fine adjustment selectable). 0.Over. Over. Over. 14. Coard/Hemote Number of addresses:31. Referees:31. 15. Separation State State Coole. Number of addresses:31. 16. Contref freqsesstore: 1000, 9600 and 19:200 Strete out												out.			
5.0n/OT control (rear panel) By electrical. Voltage: 0-0.6V/Z-15% ord yourcat, user selectable logic. 7.0uput Current monitor 0-5W or 0-10V, Accuracy: 15%, user selectable. 7.0uput Current monitor 0-5W or 0-10V, Accuracy: 15%, user selectable. 9.0weir Stupply OK signal TTL high (4-5V) - 0.6V, Accuracy: 15%, user selectable. 0.0r. Control control 0-5W or 0-10V, Accuracy: 15%, user selectable. 0.0r. Control control 0-5W or 0-10V, Accuracy: 15%, user selectable. 0.0r. Control control 0-5W or 0-10V, Accuracy: 15%, user selectable. 0.0r. Control control 0-5W or 0-10V, Accuracy: 15%, user selectable. 0.0r. Control control 0-5W or 0-10V, Accuracy: 15%, user selectable. 10. Enable Dry contact. Open.off. 5Nort: on. Max: voltage: 0-0.6W or short: Remote, 4-5V or open: Local. 11. Local/Penetote analog control Indicator Open collector, Local. Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. 5 FONT PANEL Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable). DVP/UVL manual adjust by volt. Adjust encoder. Number of addresses:31. Re-estart modes (auto, safe), Folback, Local. Output off. Re-start modes (auto, safe), Folback, Local. Output off. Re-start modes (auto, safe), Folback, Local. Output off. Re-start modes (auto, safe), Folback, Local. Output on, Front Panel Lock, CVCCC. 6 Interface RS232															
6. Output Current monitor 0 -5W or 0 -10V, Accuracy:1%, user selectable.															
2. Output Voltage monitor 0 -5V or 0 - 10V. Accuracy: 1% user selectable.															
B. Power Supply OK signal TTL high (4-5V): OK, VV-Fail 500chm series resistance.															
9. CV/CC Indicator CV: TTL high (4–5V) source: 10mA, CC: TTL low (0–0.6V), sink current: 10mA. 10. Enable/Disable Dry contact. Open:0ff. Shott: - 0.6V or short. Remote, 4–5V or open: Local. 11. Local/Remote analog control Indicator Open collector, Local: Off, Remote: On. Max: woltage at Enable/Disable in: 6V. 12. Local/Remote analog control Indicator Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. 5. FRONT PANEL Vour / but manual adjust by separate encoders (coarse and fine adjustment selectable). 1. Orifi, Output on/off, Re-start modes (auto, sale), Foldback control (CV to CC), Go to local control. Address selection by Voltage (or current) adjust encoder. 0. Off, Output on/off, Re-start modes (automatic restart, sale mode). Baud rate selection: 1200,2400,4800,9800 and 19.200. 2. Display Votage: 4 digits, Accuracy: 0.5% of rated output Current ± 1 count. 3. Indications Voltage: Adjust, Preview, Foldback, Local. Output On, Front Panel Lock, CVCC. 6. Interface RS232&RS485 or Optional GPIB Interface No.96 Model V 8 10 15 20 30 40 60 80 100 150 300 40 66 80 100 150 300 40 66 80 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>anco</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									anco						
10. Enable/Disable Dry contact. Open:off. Shot: on. Max. voltage at Enable/Disable in: 6V. 11. Local/Remote analog control indicator By electrical signal or Open/Shot: 0 - 0.6V or shot: Remote, 4 - 5V or open: Local. 21. Local/Remote analog control indicator Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. 5. FFONT PANEL Volu/ lout manual adjust by separate encoders (coarse and fine adjustment selectable). 0/P/UVL manual adjust by Volt. Adjust encoder. On/Off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control. Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (automatic restart, safe mode). Baudr rate selection: 1200 (2004).000,9600 and 19.200. Voltage: 4 digits, Accuracy: 0.5% of rated output Voltage : 1 count. Current: 4 digits, Accuracy: 0.5% of rated output Uniterent : 1 count. Voltage: 4 digits, Accuracy: 0.5% of rated output Uniterent : 1 count. 3. Indications Voltage: 0 current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock, CVCC. 6. Interface RS232&RS485 or Optional GPIB Interface NV Model V 8 10 15 20 30 40 60 80 100 150 300 6 Accuracy (0.05% Vo Rated-0.05% of Volcatal Output) mV 8 10 15<	9 CV/CC Indicator									k current:	10m4				
11. Local/Remote analog control By electrical signal or Open/Short: 0 - 0.6V or short: Remote, 4 - 5V or open: Local. 12. Local/Remote analog control Indicator Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. 5. FRONT PANEL Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable). OVP/UV. manual adjust by Volt. Adjust encoder. Out/OP/UV. manual adjust by Volt. Adjust encoder. Out/Off. Udupt on/off. Re-start modes (auto, aslb), Foldback control (CV to CC), Go to local control. Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (automatic restart, safe mode). Baud rate selection: 1200,2400.4800,9600 and 19,200. 2. Display Voltage: 4 digits, Accuracy: 0.5% of rated output Voltage 1 count. Current: 4 digits, Accuracy: 0.5% of rated output Voltage 1 count. Current: 4 digits, Accuracy: 0.5% of rated output Voltage 1 count. 6. Interface RS232&RS485 or Optional GPIB Interface Model V Model V 8 10 15 20 30 40 60 80 100 150 300 6 2. Resolution (0.012% of Vo Rated) mV 0.96 1.2 1.8 2.40 3.60 4.80 7.2 9.6 1.3 0 A											1011/1.				
12. Local/Remote analog control Indicator Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. 5. FRONT PANEL											n: Loool				
S. FRONT PANEL Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable). 1. Control functions Vout/ lout manual adjust by volt. Adjust encoder. OVP/UVL manual adjust by volt. Adjust encoder. OVP/UVL manual adjust by volt. Adjust encoder. Number of addresses:31. Re-start modes (auto. safe). Foldback control (CV to CC). Go to local control. Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (auto. safe). Foldback control (CV to CC). Go to local control. Address selection: 1200.2400.4800.9600 and 19.200. 2. Display Voltage: current, adamsic restart, safe mode). Baud rate selection: 1200.2400.4800.9600 and 19.200. 3. Indications Voltage: current, Alarm. Fine, Preview, Foldback, Local. Output On, Front Panel Lock, CVCC. Voltage: Current, Alarm. Fine, Preview, Foldback, Local. Output On, Front Panel Lock, CVCC. .6 Interface RS232&RS485 or Optional GPIB Interface Woltage Programming (16 bit) Resolution (0.012% of Vo Rated) mV 0.96 12 1.8 2.40 3.60 4.80 7.2 9.6 12 18 3.6 Accuracy (0.05% Vo Rated) mA 4.8 39.6 26.4 19.8 13.2 10.2 6.6 5.0 4.0 2.6 1.3 C Resolut		adiaatax										ont: 10mA			
1. Control functions Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable). OVP/UVL manual adjust by Volt. Adjust encoder. OVP/UVL manual adjust by Voltage (auto, safe), Foldback control (CV to CC), Go to local control. Address selection by Voltage (auto, safe), Foldback control (CV to CC), Go to local control. Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (automatic restart, safe mode). Baud rate selection: 1200,2400,4800,9600 and 19,200. Current 1 2.Display Voltage: 4 digits, Accuracy: 0.5% of rated output Voltage ±1 count. Current: 4 digits, Accuracy: 0.5% of rated output ornet ±1 count. Current: 4 digits, Accuracy: 0.5% of rated output On, Front Panel Lock, CVCC. .6 Interface RS232&RS485 or Optional GPIB Interface Not 15 20 30 40 60 80 100 150 300 6 .1 Remote Voltage Programming (16 bit) mV 0.96 1.2 1.8 2.40 3.60 4.80 7.2 9.6 12 18 36 7 Accuracy (0.05% Vo Rated+0.05% of Vo Actual Output) mV 8 10 15 20 30 40 60 80 100 150 300 6 2. Remote Current Programming (16 bi	12. Local/Remote analog control II	Idicator		Open co	liector, Loca	al: Oli, Her	note: On. I	/laximum v	ollage: 30	v, maximur	II SINK CUIT	ent: Tuma.			
OVP/UVL manual adjust by Volt. Adjust encoder.	5 FRONT PANEL														
On/Off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control. Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (automatic restart, safe mode). Baud rate selection: 1200,2400,4800,9600 and 19,200. 2.0 Sylay Voltage: 4 digits, Accuracy: 0.5% of rated output Voltage ± 1 count. Current: 4 digits, Accuracy: 0.5% of rated output Current ± 1 count. 3.Indications Voltage, Current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock, CVCC. .6 Interface RS232&RS485 or Optional GPIB Interface Model V 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) mV 0.96 1.2 1.8 2.40 3.60 4.80 7.2 9.6 1.3 0 2. Remote Current Programming (16 bit) mA 48 39.6 26.4 19.8 13.2 10.2 6.6 5.0 4.0 2.6 1.3 C 2. Remote Current Programming (16 bit) mA 48 39.6 26.4 19.8 13.2 10.2 6.6 5.0 4.0 2.6 1.3 C 3. Readback Voltage	1.Control functions								rse and fir	e adjustme	ent selectat	ble).			
Address selection by Voltage (or current) adjust encoder. Number of addresses:31. Re-start modes (automatic restart, safe mode). Baud rate selection: 1200,2400,4800,9600 and 19,200. 2.Display Voltage: 4 digits, Accuracy: 0.5% of rated output Voltage ±1 count. Current: 4 digits, Accuracy: 0.5% of rated output Current ±1 count. Sandra GPIB Interface Model V 8 100 150 300 60 80 100 150 Sandra GPIB Interface Model V 8 100 150 300 60 80 100 150 300 6 300 6 300 6 100 Sandra GDI Sandra GPIB Interface Interface RS232&RS485 or Optional GPIB Interface Interface 100 N 100															

*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.
*4: Single-Phase and 3-Phase 208V models. 42.08Vac input voltage, 3-Phase 400V: At 380Vac input voltage. With rated output power.
*5: Not including EMI filter inrush current, less than 0.2mSec.
*6: Single-Phase and 3-Phase 208V models: 170-265Vac, constant load. 3-Phase 400V models: 342-460Vac, constant load.

*7: From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.
 *8: For 8V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured

b) For 6V-300 models, measured with 2ETA PC-3T3T4 (1.1) proce. For 600 model, measured with 10:1 probe.
*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.
*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 voltage. output current.

Snaptec Australia

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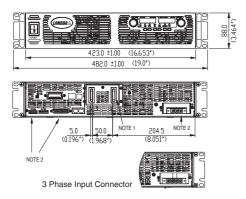


General Specifications Genesvs[™] 3.3kW

	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-						
1. Input voltage/fre	eq. (*3)					~265Vac, 4														
		VAC				5Vac, 47~6														
						0Vac, 47~6														
 Maximum Input current 	Single Phase,230V models:	A	24	24	24	24	24	24	23	23	23	23	23	23						
at 100% load	3-Phase, 208V models: 3-Phase, 400V models:	- ^	15 7.5	15 7.5	15 7.5	15 7.5	15 7.5	15 7.5	14.5 7	14.5 7	14.5 7	14.5 7	14.5 7	14						
3. Power Factor (1	Typ)	+																		
4. Efficiency (*4)		%	Single Phase models: 0.99@230Vac, rated output power. 3-Phase models: 0.94@208/380Vac, rated output power. 82 84 84 86 88 88 88 88								8									
5. Inrush Current ((*5)	А				V models: L	ess than 5	60A												
	# L			00V model																
Hold-up time (T	yp)	mS	10mSec fo	or Single-Pl	hase and 3	-phase 208	V models,	6mSec for	3-Phase 4	00V model	s. Rated ou	tput power								
2 POWER SUPP	LY CONFIGURATION																			
1. Parallel Operatio		Up to 4 is	dentical un	its in mast	er/slave n	node														
2. Series Operatio						des. 600V	Max to Ch	nassis oroi	Ind											
		1						<u></u>												
	TAL CONDITIONS																			
 Operating temp)		100% loa	d.																
2. Storage temp		-30~85∂																		
Operating humi		+	RH (non-c		<i>u</i>															
 Storage humidit 	ty		RH (non-c																	
5. Vibration		MIL-810	, method	514.5 , The	e EUT is fi	xed to the	vibrating s	surface.												
6. Shock						t is unpack														
7. Altitude									/e 2000m,	Alternativ	ely, derate	maximum	ambient	temp.						
		by 1°C/100m above 2000m. Non operating: 40000ft (12000m).																		
 RoHS Compliar 	nce	Complies	s with the	requireme	nts of Rol	IS directive	э.													
4 EMC																				
1. Applicable Stan	ele vele :																			
2.ESD	uarus.	1501000	-4-2. Air-di	ach OKV	oontoot di	aab 41/1/														
3.Fast transients			-4-2. All-ul -4-4. 2KV	50H.=Ort V,	contact ui	5011.=4r\ V														
4.Surge immunity			-4-4. 2KV -4-5. 1KV	lina ta lina	2KV/ line	to around														
5.Conducted imm		IEC1000			, 211 11111	to ground														
6.Radiated immur		-	-4-6, 3V -4-3, 3V/m																	
7.Magnetic field in	1	-	-4-3, 3V/m)-4-8, 1A/n																	
8. Voltage dips	Initiatinty	EN61000		1																
9. Conducted emis	scion		2A, FCC pa	ort 15 A V																
 Radiated emis 			A, FCC pa																	
TO. Hadiated enha	551011	LIN00022	.A, 100 pc	an 13-A, v	00I-A.															
.5 SAFETY																				
1.Applicable stand	dards:	CE Mark	, UL60950	,EN60950	listed. V	out£40V:Ou	Itput is SE	ELV , IEEE	/Isolated a	analog are	SELV.									
		40 <vout< td=""><td>400V: Ou</td><td>tput is haz</td><td>ardous, IE</td><td>EE/Isolate</td><td>d analog a</td><td>are SELV.</td><td></td><td></td><td></td><td></td><td></td><td></td></vout<>	400V: Ou	tput is haz	ardous, IE	EE/Isolate	d analog a	are SELV.												
		400 <vou< td=""><td>t£600V:Ou</td><td>tput is haz</td><td>zardous, II</td><td>EEE/Isolate</td><td>d analog</td><td>are not SE</td><td>LV.</td><td></td><td></td><td></td><td></td><td></td></vou<>	t£600V:Ou	tput is haz	zardous, II	EEE/Isolate	d analog	are not SE	LV.											
2.Withstand voltag	ge	400 <vout£600v:output analog="" are="" hazardous,="" ieee="" is="" isolated="" not="" selv.<br="">Vout£40V models :Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.</vout£600v:output>																		
		40 <vout< td=""><td>100V mod</td><td>dels: Input-</td><td>Haz. Out</td><td>out: 2600V</td><td>DC 1min,</td><td>Input-SEL</td><td>V: 4242VD</td><td>C 1min.</td><td></td><td></td><td></td><td></td></vout<>	100V mod	dels: Input-	Haz. Out	out: 2600V	DC 1min,	Input-SEL	V: 4242VD	C 1min.										
			40 <vouté100v 1min,="" 1min.<br="" 2600vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="">Hazardous OutputSELV: 1900VDC 1min, Hazardous Output-Ground:1200VDC 1min. Input-Ground: 2828VDC 1min.</vouté100v>																	
		100 <vout£600v 1min,="" 1min.<="" 4000vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""><td></td><td></td><td></td></vout£600v>																		
		100 <vou< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="10">Hazardous OutputSELV: 3550VDC 1min. Hazardous Output-Ground:2670VDC 1min. Input-Ground: 2828VDC 1min.</td></vou<>									Hazardous OutputSELV: 3550VDC 1min. Hazardous Output-Ground:2670VDC 1min. Input-Ground: 2828VDC 1min.									
		100 <vou Hazardo</vou 	us Output.	-SELV: 35	50VDC 1n	nin. Hazaro					ut-Ground:	2828VDC	1min.							
3.Insulation resista	ance	100 <vou Hazardo</vou 		-SELV: 35	50VDC 1n	nin. Hazaro					ut-Ground:	2828VDC	1min.							
		100 <vou Hazardo</vou 	us Output.	-SELV: 35	50VDC 1n	nin. Hazaro					ut-Ground:	2828VDC	1min.							
6 MECHANICAL	ance CONSTRUCTION	100 <vou Hazardo More tha</vou 	us Output. n 100Moh	-SELV: 355 m at 257C	50VDC 1n , 70% RH	nin. Hazaro	ous Outp	ut-Ground	2670VDC	1min. Inp			1min.							
6 MECHANICAL	CONSTRUCTION	100 <vou Hazardo More tha</vou 	us Output. n 100Moh	SELV: 355 m at 250C	50VDC 1n , 70% RH ear. No ve	nin. Hazaro ntilation ho	ous Outp	ut-Ground	2670VDC	1min. Inp	ut-Ground: ariable fan s		1min.							
.6 MECHANICAL 1. Cooling 2. Dimensions (W:	CONSTRUCTION	100 <vou Hazardoo More tha Forced a W: 423m</vou 	us Output. n 100Moh	SELV: 355 m at 250C	50VDC 1n , 70% RH ear. No ve	nin. Hazaro	ous Outp	ut-Ground	2670VDC	1min. Inp			1min.							
.6 MECHANICAL 1. Cooling 2. Dimensions (W: 3. Weight	CONSTRUCTION xHxD)	100 <vou Hazardon More tha Forced a W: 423m 13 kg.</vou 	us Output. n 100Moh ir flow: fror im, H: 88m	-SELV: 358 m at 25∂C n front to ro nm, D: 442	50VDC 1n , 70% RH ear. No ve .5mm (ex	ntilation ho	es at the	ut-Ground top or bott encoders,	2670VDC	timin. Inp chassis; Va etc.)			1min.							
.6 MECHANICAL 1. Cooling 2. Dimensions (W: 3. Weight	CONSTRUCTION	100 <vou Hazardon More tha Forced a W: 423m 13 kg. Single Ph</vou 	us Output. n 100Mohi ir flow: fror im, H: 88m ase,230V r	-SELV: 35 m at 25 dC n front to m m, D: 442 nodels, Po	50VDC 1n , 70% RH ear. No ve .5mm (ex wer Combi	ntilation ho cluding con	es at the nectors,	top or bott encoders, 16 series,	com of the of handles, e	thin. Inp chassis; Va etc.) relief.			1min.							
1. Cooling 2. Dimensions (W: 3. Weight 4. AC Input conne	CONSTRUCTION xHxD) ctor (with Protective Cover)	100 <vou Hazardoi More tha Forced a W: 423m 13 kg. Single Ph 3-Phase,</vou 	us Output. n 100Mohi ir flow: fror m, H: 88m ase,230V r 208V & 40	SELV: 355 m at 25∂C n front to r im, D: 442 models, Po 0V models,	50VDC 1n , 70% RH ear. No ve .5mm (ex wer Combi Power Cc	ntilation ho cluding con con PC 6-1 mbicon PC	es at the nnectors, 6/3-GF-10 6-16/4-GF	top or bott encoders, 16 series,	com of the of handles, e with Strain es, with St	timin. Inp chassis; Va etc.) relief. rain relief.	ariable fan s	speed.								
.6 MECHANICAL 1. Cooling 2. Dimensions (W: 3. Weight	CONSTRUCTION xHxD) ctor (with Protective Cover)	100 <vou Hazardoi More tha Forced a W: 423m 13 kg. Single Ph 3-Phase,</vou 	us Output. n 100Mohi ir flow: fror m, H: 88m ase,230V r 208V & 40	SELV: 355 m at 25∂C n front to r im, D: 442 models, Po 0V models,	50VDC 1n , 70% RH ear. No ve .5mm (ex wer Combi Power Cc	ntilation ho cluding con con PC 6-1 mbicon PC	es at the nnectors, 6/3-GF-10 6-16/4-GF	top or bott encoders, 16 series,	com of the of handles, e with Strain es, with St	timin. Inp chassis; Va etc.) relief. rain relief.		speed.		7.62						
.6 MECHANICAL 1. Cooling 2. Dimensions (W: 3. Weight 4. AC Input conne	CONSTRUCTION xHxD) ctor (with Protective Cover) ors	100 <vou Hazardoi More tha Forced a W: 423m 13 kg. Single Ph 3-Phase,</vou 	us Output. n 100Mohi ir flow: fror m, H: 88m ase,230V r 208V & 40	SELV: 355 m at 25∂C n front to r im, D: 442 models, Po 0V models,	50VDC 1n , 70% RH ear. No ve .5mm (ex wer Combi Power Cc	ntilation ho cluding con con PC 6-1 mbicon PC	es at the nnectors, 6/3-GF-10 6-16/4-GF	top or bott encoders, 16 series,	com of the of handles, e with Strain es, with St	timin. Inp chassis; Va etc.) relief. rain relief.	ariable fan s	speed.		7.62						

All specifications subject to change without notice.

Outline Drawing Genesys[™] 3.3kW Units



536.6 (21.125*) 86.0 A 42.0 (1.653*) 60.5 ±0.50 (2.381*) 92.0 ± 0.5 92.0±0.5 (3.625*) (3.625*) 442.5 ±1.00

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
- Chassis slides mounting holes #10-32 marked "A" GENERAL DEVICES P/N: C-300-S-116 or equivalent

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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 Parallel Master/Slave Mode, total current is programmed and reported by the Master



Series operation

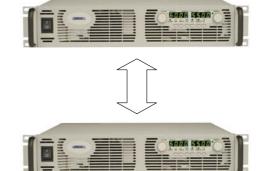
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

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.







Programming Options (Factory installed)

 Digital Programming via 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 shu 	P/N: IEEE
 New IEEE Multi-Drop Interface Allows IEEE Master to control up to 31 slaves over F Only the Master needs be equipped with IEEE Interface 		P/N: IEMD
Slaves need to be equipped with the MD Slave (RS4)	.85) option	P/N: MD
Isolated Analog Programming Four Channels to Program and Monitor Voltage and Co Isolation allows operation with floating references in ha Choose between programming with Voltage or Current Connection via removable terminal block: Phoenix MC	arsh electrical environmen t.	ts.
 Voltage Programming, user-selectable 0-5V or 0 Power supply Voltage and Current Programming Acc Power supply Voltage and Current Monitoring Accuration 	curacy ±1%	P/N: IS510
Current Programming with 4-20mA signal. Power supply Voltage and Current Programming Acc Power supply Voltage and Current Monitoring Accura		P/N: IS420

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Power Supply Identification / Accessories How to order

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

IS420

P/N

IEEE

IEMD

IS510

IS420

MD

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

Factory options

RS-232/RS-485 Interface Built-in Standard IEEE 488.2 (GPIB) Interface IEEE 488.2 (GPIB) Multi-Drop Master Interface RS-485 Multi-Drop Slave Interface Voltage Programming Isolated Analog Interface Current Programming Isolated Analog Interface

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[™] power supplies.

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

Also available, Genesys™ 1U full Rack 750W/1500W & Half Rack 750W



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	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