

## GEN SERIES

Laboratory AC/DC Supplies: 750 - 1500 Watts

Optional 750W Half Rack -H



### Specifications

INPUT:	85~264 VAC
FREQUENCY:	47~63Hz
POWER FACTOR:	0.99 at rated output power
HARMONICS:	Complies with EN61000-3-3
INPUT CURRENT: (100/240 VAC)	750W: 10.5A/5A 1500W: 21A/11A
EFFICIENCY:	Model dependent 77-88%
REMOTE SENSE:	Yes. 1.5V compensation depending on model
PROTECTION:	Overcurrent 0-105% constant current output shutdown when power supply changes from CV to CC user selectable
OVP:	Shutdown. Manual reset by recycling AC input or by OUT button
OVP TRIP POINT:	User selectable
OVER TEMP. PROTECTION:	User selectable, latched or non-latched
HOLD-UP TIME:	Typically 20ms at 100VAC & FL
EMC STANDARDS:	ESD: IEC1000-4-2 Fast Transients: IEC1000-4-4 2KV Surge Immunity: IEC1000-4-5 Conducted Immunity: IEC1000-4-6 Conducted Emission: EN55022 B Radiated Emissions: EN55022 A
SAFETY:	EN60950, UL60950 approved, CE marked
OPERATING TEMP.:	0~50°C at 100% load
STORAGE TEMP:	-20°C to 70°C
OPERATING HUMIDITY:	30-90% RH no condensation
VIBRATION:	MIL-810E method 514.4
SHOCK:	Less than 20G, half sine, 11msec
ALTITUDE:	10,000ft/3000m operating
COOLING:	Forced air, front to rear
DIMENSIONS:	19in x 1RU Rack mounting 422.8 x 43.6 x 432.8mm
WEIGHT:	750W: 7kg. 1500W: 8.5kg.
AC INPUT CONNECTOR:	750W: IEC320 socket 1500W: screw terminal block
DC OUTPUT:	6V to 60V models: bus bars 80V to 600V Terminal block

### Features

- Universal input 85~264 VAC
- Active Power Factor Correction 0.99
- High power density 1500W in 1U rack
- Output up to 600V, current up to 200A
- Built in RS232/RS485 interface - standard
- Optional GPIB (SCP) interface
- Software calibration and Last Setting Memory • High resolution 16 bits ADCs and DACs
- Reliable encoders for voltage and current adjustment • Constant voltage/constant current
- Parallel operation with Active Current Sharing, with up to 4 units in master slave mode and single wire current share
- Series Operation ... maximum 2 units with external diodes • Independent remote ON/OFF
- Remote enable/disable
- External analog programming and monitoring • Optional isolated analog programming and monitoring • Lab View and Lab Windows drivers
- Conformal coating option - "CC"

### Programming

- Analog programming: 0-5V or 0-10V selectable
- Analog programming: 0-5/10 Kohm resistance
- ON/OFF Control: 0-0.6V/2-15V selectable or dry contact • Output V/A Monitor: 0-5V or 0-10V selectable
- Power supply OK signal: 5V OK, 0V Fail
- CV/CC Indicator: CC TTL high (4-5V) source 10mA, TTL low (0-0.4V) 10mA
- Enable/Disable: Dry contact Short ON

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Model	Output		Power W
	V	A	
GEN6 - 100	0-6V	100A	600W
GEN8 - 90	0-8V	90A	720W
GEN12.5 - 60	0-12.5V	60A	750W
GEN20 - 38	0-20V	38A	760W
GEN30 - 25	0-30V	25A	750W
GEN40 - 19	0-40V	19A	760W
GEN60 - 12.5	0-60V	12.5A	750W
GEN80 - 9.5	0-80V	9.5A	760W
GEN100 - 7.5	0-100V	7.5A	750W
GEN150 - 5	0-150V	5A	750W
GEN300 - 2.5	0-300V	2.5A	750W
GEN600 - 1.3	0-600V	1.3A	780W

Model	Output		Power W
	V	A	
GEN6 - 200	0-6V	200A	1200W
GEN8 - 180	0-8V	180A	1440W
GEN12.5 - 120	0-12.5V	120A	1500W
GEN20 - 76	0-20V	76A	1520W
GEN30 - 50	0-30V	50A	1500W
GEN40 - 38	0-40V	38A	1520W
GEN50 - 30	0-50V	30A	1500W
GEN60 - 25	0-60V	25A	1500W
GEN80 - 19	0-80V	19A	1520W
GEN100 - 15	0-100V	15A	1500W
GEN150 - 10	0-150V	10A	1500W
GEN300 - 5	0-300V	5A	1500W
GEN600 - 2.6	0-600V	2.6A	1560W

## FRONT PANEL DESCRIPTION



1. AC On/Off
2. Air intake allows zero stacking for maximum system flexibility and power.
3. Reliable encoder controls Output Voltage and sets Address.
4. Volt Meter shows Output Voltage and directly displays OVP, UVL and Address settings.
5. Amp Meter also displays Baud Rate.
6. Reliable encoder controls Output Current and sets baud rate.
7. Function/Status LED's - Alarm • Fine Control • Preview Settings • Foldback Mode • Remote Mode • Output On
8. Pushbuttons allow flexible user configuration for the following:
  - Coarse and Fine Voltage and Current Adjustment of Output
  - Preview Settings and Set Voltage while in Current Mode or with Output OFF
  - Set OVP and UVL Limits
  - Set Current Foldback
  - Local/Remote mode and select Address and Baud Rate
  - Output ON/OFF and Auto/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 Programme and Monitor as well as other functions.
4. RS485 Out to other Genesys Power Supplies.
5. RS232/RS485 IN Remote Serial Programming.
6. Output Terminals are rugged bus bars for 6-60V Output. Higher output voltage models have a terminal block connector.
7. Exit air assures reliable operation when zero stacked.
8. Wide-range input 85 - 265 VAC continuous, 47/63Hz with Active Power Factor Correction (0.99).  
AC Input Connector 750W: IEC320, 1500W: Screw Terminal model shown.
9. Position for Optional Isolated Analog Programming or GPIB Digital Interface model shown