

# LVP SERIES

## 1000 WATT DC POWER SUPPLY

**HIGH POWER DENSITY**



- RS232/GPIB Programming interface available
- Nine Different Voltage/Current Combinations
- Universal Mains Input Capability
- 1000W output power

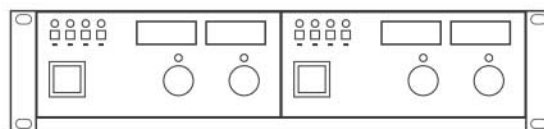
### Glassman LVP Series DC Power Supply

The LVP Series of 'power factor corrected' DC power supplies, combine high efficiency and high power in a very compact enclosure.

These versatile power supplies are available with output voltages from 0 - 7.5V through to 0 - 600V and with 1kW of continuous output power. Both power levels have local front panel controls and meters, together with remote analogue programming and monitoring facilities. Available options include RS232 and GPIB digital interfaces, for use within automated test systems.

The LVP Series also features a universal mains input capability, together with overvoltage protection and thermal shutdown, as standard.

MODEL	VOLTAGE	CURRENT
LVP 7.5-130	0-7.5V	0-130A
LVP 20-50	0-20V	0-50A
LVP 33-33	0-33V	0-33A
LVP 40-25	0-40V	0-25A
LVP 60-18	0-60V	0-18A
LVP 100-10	0-100V	0-10A
LVP 150-7	0-150V	0-7A
LVP 300-3.5	0-300V	0-3.5A
LVP 600-1.7	0-600V	0-1.7A



Two units rack mounted

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## Electrical specifications and characteristics for the LVP 1000 Watt Series

Models (V-A)	LVP7.5-130	LVP 20-50	LVP 33-33	LVP 40-25	LVP 60-18	LVP 100-10	LVP 150-7	LVP 300-3.5	LVP 600-1.7
<b>Output Ratings</b>									
Output Voltage	0-7.5V	0-20V	0-33V	0-40V	0-60V	0-100V	0-150V	0-300V	0-600V
Output Current	0-130A	0-50A	0-33A	0-25A	0-18A	0-10A	0-7A	0-3.5A	0-1.6A
Output power	975W	1000W	1089W	1000W	1080W	1000W	1050W	1050W	960W
<b>Line Regulation</b>									
Voltage (0.01% of Vmax+2mV)	1mV	1mV	1mV	1mV	1.5mV	1.5mV	3mV	10mV	15mV
Current (0.1% of I max +1mA)	5mA	2mA	1mA	1mA	1mA	1mA	1mA	1mA	1mA
<b>Load Regulation</b>									
Voltage (1% of Vmax+2mV)	1.5mV	1.5mV	1.5mV	1.5mV	1.5mV	2.5mV	4mV	10mV	15mV
Current (0.05% of Vmax+1 count)	50mA	10mA	4mA	3mA	3mA	2mA	2mA	2mA	2mA
<b>Meter Accuracy</b>									
Voltage (1% of Vmax+1 count)	0.05V	0.2V	0.3V	0.3V	0.4V	0.6V	0.9V	1.6V	4V
Current (1% of Vmax+1 count)	0.8A	0.4A	0.3A	0.3A	0.1A	0.06A	0.05A	0.03A	0.01A
<b>Output Noise and Ripple (V)</b>									
rms	5mV	5mV	5mV	5mV	5mV	5mV	10mV	15mV	50mV
p-p (0-20MHz)	50mV	50mV	75mV	75mV	75mV	100mV	150mV	250mV	500mV
<b>Stability</b>									
Voltage (0.05% of Vmax)	3.75mV	10mV	16.5mV	20mV	30mV	50mV	75mV	150mV	300mV
Current (0.05% of Vmax)	65mA	25mA	16.5mA	12.5mA	9mA	5mA	3.5mA	1.75mA	0.80mA
<b>Temperature Coefficient</b>									
Voltage (0.02% of Vmax/°C)	1.5mV	4mV	6.6mV	8mV	12mV	20mV	30mV	60mV	120mV
Current(0.3% of Imax/°C)	39mA	15mA	9.9mA	7.5mA	5.4mA	3mA	2.1mA	1.1mA	0.48mA
<b>Maximum remote Sense</b>									
Line Drop Compensation	3V/line	5V/line	5V/line	5V/line	5V/line	5V/line	5V/line	5V/line	5V/line
<b>OVP Adjustment Range</b> (5% to 110% of Vmax)									
	0.375-8.25V	1-22V	1.65-36.3V	2-44V	3-66V	5-110V	7.5-165V	15-330V	30-660V

**AC Input:** 85 - 250Vac, 47 - 63 Hz, 13A max @ 100Vac, 6A max @ 220Vac

**Power Factor:** 0.98 minimum for full load

**Notes:** Specifications are warranted over a temperature range of 0-40°C with default local sensing. From 40 to 70°C, derate 2% per °C. Numbers posted are maximum values for model dependant specifications. Specifications subject to change without notice.

## Internal GPIB/RS232 Interface Specifications

	LVP 7.5-130	LVP 20-50	LVP 33-33	LVP 40-25	LVP 60-18	LVP 100-10	LVP 150-7	LVP 300-3.5	LVP 600-1.7
<b>Program Resolution</b>									
Voltage	0.13mV	0.34mV	0.55mV	0.67mV	1.01mV	1.68mV	2.52mV	5.04mV	10.1mV
Current	2.8mA	0.84mA	0.55mA	0.42mA	0.3mA	0.17mA	0.12mA	0.06mA	0.03mA
OVP	0.13mV	0.34mV	0.55mV	0.67mV	1.01mV	1.68mV	2.52mV	5.04mV	10.1mV
<b>Program Accuracy</b>									
Voltage (0.2%+10mV)	25mV	50mV	76mV	90mV	130mV	210mV	310mV	610mV	1210mV
Current (0.3%+10mA)	400mA	160mA	109mA	85mA	64mA	40mA	31mA	21mA	15mA
OVP (0.5%+100mV)	138mV	200mV	265mV	300mV	400mV	600mV	850mV	1600mV	3100mV
<b>Readback Resolution</b>									
Voltage	0.13mV	0.34mV	0.55mV	0.67mV	1.01mV	1.68mV	2.52mV	5.04mV	10.1mV
Current	2.18mA	0.84mA	0.55mA	0.42mA	0.3mA	0.17mA	0.12mA	0.06mA	0.03mA
<b>Readback Accuracy</b>									
Voltage (0.2%+20mV)	35mV	60mV	86mV	100mV	140mV	220mV	320mV	620mV	1220mV
Current (0.3%+20mA)	410mA	170mA	119mA	95mA	74mA	50mA	41mA	31mA	25mA

**Notes:** Specifications are warranted at 25°C±5°C unless otherwise specified.

**Dimensions:** mm (inches)

**Weight:** Approx. 8.2kg (18lbs)

