

Linear D.C. Power Supply



GPR-M Series



FEATURES

- * 0.01% High Regulation
- * Constant Voltage and Constant Current Operation
- * Internal Select for Continuous or Dynamic Load
- * Low Ripple and Noise
- * Overload and Reverse Polarity protection
- * 3 1/2 Digit 0.5" LED Display

The GPR-M Series is single output, 180W, linear DC power supplies which featuring all the same functions as the GPR-H Series but for lower power demands. Like the GPR-H Series, the GPR-M Series is suitable for high-end precision bench top applications. Low load and line regulation for both constant voltage and constant current mode ensure reliable, predictable output. Overload and reverse polarity protection as well as internal selection for dynamic or constant load are standard.

SPECIFICATIONS	
CONSTANT VOLTAGE OPERATION	
Regulation	Line regulation $\leq 0.01\% + 3mV$ Load regulation $\leq 0.01\% + 5mV$ ($<10A$) Load regulation $\leq 0.02\% + 5mV$ ($\geq 10A$)
Ripple & Noise	$\leq 1mV_{rms}$ 5Hz ~ 1MHz
Recovery Time	$\leq 100\mu s$ (50% load change, minimum load 0.5A)
Output Range	0 to rating voltage continuously adjustable
CONSTANT CURRENT OPERATION	
Regulation	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$
Ripple Current	$\leq 3mA_{rms}$
Output Range	0 to rating current continuously adjustable
METER	
Digital	3 1/2 Digits 0.5" LED display Accuracy $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$
INSULATION	
Chassis and Terminal	$20M\Omega$ or above (DC 500V)
Chassis and AC Cord	$30M\Omega$ or above (DC 500V)
POWER SOURCE	
AC 100V/120V/220V/240V $\pm 10\%$, 50/60Hz	
DIMENSIONS	
254(W) x 152(H) x 349(D) mm	

ORDERING INFORMATION				
Model		Output Volts (V)	Output Amps (A)	Weight (kg)
GPR-1810HD	180W D.C. Power Supply	0 ~ 18	0 ~ 10	11.5
GPR-3060D	180W D.C. Power Supply	0 ~ 30	0 ~ 6	11.5
GPR-6030D	180W D.C. Power Supply	0 ~ 60	0 ~ 3	11.5
ACCESSORIES:				
User manual x 1, Power cord x 1				
Test lead GTL-105A x 1 (GPR-6030D)				
GTL-104A x 1 (GPR-1810HD/3060D)				
OPTIONAL ACCESSORIES				
GRA-401 Rack Adapter Panel (19", 4U)				

Linear D.C. Power Supply



GPS-1830D/1850D/3030D



GPS-1850/3030



GPS-3030DD



FEATURES

- * Light and Compact Design
- * 0.01% High Regulation
- * Constant Voltage and Constant Current Operation
- * Remote Control for External Programmability
- * Internal Select for Continuous or Dynamic Load
- * Low Ripple and Noise
- * Overload and Reverse Polarity Protection
- * Series or Parallel Operation
- * Optional European Type Jack Terminal for GPS-3030/GPS-3030D/GPS-3030DD

The GPS-Series is single output, 54W to 90W, linear DC power supplies. The GPS-Series includes both analog and digital display meters with varying power outputs. The GPS-Series features overload and reverse polarity protection as well as high regulation and low ripple/noise that are maintained at 0.01% and $< 1mV_{rms}$, respectively. Continuous or dynamic internal load selection accommodates applications such as pulsed current. Remote control terminals offer programming and operation from an external device.

SPECIFICATIONS	
CONSTANT VOLTAGE OPERATION	
Regulation	Line regulation $\leq 0.01\% + 3mV$ Load regulation $\leq 0.01\% + 3mV$ (rating current $\leq 3A$) $\leq 0.01\% + 5mV$ (rating current $> 3A$)
Ripple & Noise	$\leq 0.5mV_{rms}$ 5Hz ~ 1MHz (rating current $\leq 3A$) $\leq 1mV_{rms}$ 5Hz ~ 1MHz (rating current $> 3A$)
Recovery Time	$\leq 100\mu s$ (50% load change, minimum load 0.5A)
Temp. Coefficient	$\leq 300 \text{ ppm}/^{\circ}C$
Output Range	0 to rating voltage continuously adjustable
CONSTANT CURRENT OPERATION	
Regulation	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$
Ripple Current	$\leq 3mA_{rms}$
Output Range	0 to rating current continuously adjustable (Hi / Lo range switchable)
METER	
Analog	V-meter and I-meter 2.5 class Dimensions 50 x 50 mm
Digital	3 1/2 digits 0.5" LED display (GPS-1830D/1850D/3030D) 3 1/2 digits 0.39" LED display (GPS-3030DD) Accuracy $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$
INSULATION	
Chassis and Terminal	$20M\Omega$ or above (DC 500V)
Chassis and AC Cord	$30M\Omega$ or above (DC 500V)
POWER SOURCE	
AC 100V/120V/220V/240V $\pm 10\%$, 50/60Hz	
DIMENSIONS	
128(W) x 145(H) x 285(D) mm	

ORDERING INFORMATION				
Model		Output Volts(V)	Output Amps(A)	Weight (kg)
GPS-1850	90W D.C. Power Supply	0 ~ 18	0 ~ 5	5.5
GPS-3030	90W D.C. Power Supply	0 ~ 30	0 ~ 3	5
GPS-1830D	54W D.C. Power Supply	0 ~ 18	0 ~ 3	4
GPS-1850D	90W D.C. Power Supply	0 ~ 18	0 ~ 5	5
GPS-3030D	90W D.C. Power Supply	0 ~ 30	0 ~ 3	5
GPS-3030DD	90W D.C. Power Supply	0 ~ 30	0 ~ 3	5
ACCESSORIES:				
User manual x 1, Power cord x 1				
Test lead GTL-105A x 1 ($\leq 3A$) or GTL-104A x 1 ($\leq 10A$)				
European test lead GTL-203A x 1 ($\leq 3A$) or GTL-204A x 1 ($\leq 10A$)				

European Type Jack Terminal



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