

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

European Type Jack Terminal



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 < 1mVrms, 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 $\leq 0.01\% + 3\text{mV}$ Load regulation $\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$) $\leq 0.01\% + 5\text{mV}$ (rating current $> 3\text{A}$)
Ripple & Noise	$\leq 0.5\text{mVrms}$ 5Hz ~ 1MHz (rating current $\leq 3\text{A}$) $\leq 1\text{mVrms}$ 5Hz ~ 1MHz (rating current $> 3\text{A}$)
Recovery Time	$\leq 100\mu\text{S}$ (50% load change, minimum load 0.5A)
Temp. Coefficient	$\leq 300\text{ppm}/^\circ\text{C}$
Output Range	0 to rating voltage continuously adjustable

CONSTANT CURRENT OPERATION

Regulation	Line regulation $\leq 0.2\% + 3\text{mA}$ Load regulation $\leq 0.2\% + 3\text{mA}$
Ripple Current	$\leq 3\text{mA}_{\text{rms}}$
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 Ω or above (DC 500V)
Chassis and AC Cord	30M Ω 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	0 ~ 18	0 ~ 5	5.5
	GPS-3030	0 ~ 30	0 ~ 3	5
	GPS-1830D	0 ~ 18	0 ~ 3	4
	GPS-1850D	0 ~ 18	0 ~ 5	5
	GPS-3030D	0 ~ 30	0 ~ 3	5
	GPS-3030DD	0 ~ 30	0 ~ 3	5
ACCESSORIES:				
User manual x 1, Power cord x 1				
Test lead GTL-105A x 1 ($\leq 3\text{A}$) or GTL-104A x 1 ($\leq 10\text{A}$)				
European test lead GTL-203A x 1 ($\leq 3\text{A}$) or GTL-204A x 1 ($\leq 10\text{A}$)				