

# Linear D.C. Power Supply



GPS-1830D/1850D/3030D



GPS-1850/3030



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 < 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

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

### CONSTANT CURRENT OPERATION

<b>Regulation</b>	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$
<b>Ripple Current</b>	$\leq 3mArms$
<b>Output Range</b>	0 to rating current continuously adjustable (Hi / Lo range switchable)

### METER

<b>Analog</b>	V-meter and I-meter 2.5 class Dimensions 50 x 50 mm
<b>Digital</b>	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

<b>Chassis and Terminal</b>	20M $\Omega$ or above (DC 500V)
<b>Chassis and AC Cord</b>	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

## 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



## 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 ( $\leq 3A$ ) or GTL-104A x 1 ( $\leq 10A$ )  
European test lead GTL-203A x 1 ( $\leq 3A$ ) or GTL-204A x 1 ( $\leq 10A$ )