

## LINEAR D.C. POWER SUPPLY



**GPS-1830D/1850D/3030D**



**GPS-1850/3030/6010**



**GPS-3030DD**



The GPS-Series are single output, 54 to 90W, linear DC power supply. Overload and reverse polarity protection keep the GPS-Series and its loads safe from unexpected conditions. High regulation and low ripple/noise are maintained at 0.01% and < 1mVrms, respectively. Internal load selection, continuous or dynamic, 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 $\leq 0.01\% + 3\text{mV}$<br>Load regulation $\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$ )<br>$\leq 0.01\% + 5\text{mV}$ (rating current $> 3\text{A}$ ) |
| <b>Ripple &amp; Noise</b> | $\leq 0.5\text{mVrms}$ 5Hz ~ 1MHz (rating current $\leq 3\text{A}$ )<br>$\leq 1\text{mVrms}$ 5Hz ~ 1MHz (rating current $> 3\text{A}$ )                                                   |
| <b>Recovery Time</b>      | $\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)                                                                                                                                |
| <b>Temp. Coefficient</b>  | $\leq 300\text{ppm}/^\circ\text{C}$                                                                                                                                                       |
| <b>Output Range</b>       | 0 to rating voltage continuously adjustable                                                                                                                                               |

#### CONSTANT CURRENT OPERATION

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

#### METER

|                |                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Analog</b>  | V-meter and I-meter<br>2.5 class<br>Dimensions 50 x 50 mm                                                                                                       |
| <b>Digital</b> | 3 1/2 digits 0.5" LED display (GPS-1830D/1850D/3030D)<br>3 1/2 digits 0.39" LED display (GPS-3030DD)<br>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

### ORDERING INFORMATION

|  | Model                                   | Output Volts(V) | Output Amps(A) | Weight (kg) |
|--|-----------------------------------------|-----------------|----------------|-------------|
|  | <b>GPS-1850</b> 90W D.C. Power Supply   | 0 ~ 18          | 0 ~ 5          | 5.5         |
|  | <b>GPS-3030</b> 90W D.C. Power Supply   | 0 ~ 30          | 0 ~ 3          | 5           |
|  | <b>GPS-6010</b> 60W D.C. Power Supply   | 0 ~ 60          | 0 ~ 1          | 4           |
|  | <b>GPS-1830D</b> 54W D.C. Power Supply  | 0 ~ 18          | 0 ~ 3          | 4           |
|  | <b>GPS-1850D</b> 90W D.C. Power Supply  | 0 ~ 18          | 0 ~ 5          | 5           |
|  | <b>GPS-3030D</b> 90W D.C. Power Supply  | 0 ~ 30          | 0 ~ 3          | 5           |
|  | <b>GPS-3030DD</b> 90W D.C. Power Supply | 0 ~ 30          | 0 ~ 3          | 5           |

#### ACCESSORIES :

User manual x 1, Power cord x 1  
Test lead GTL-105 x 1 ( $\leq 3\text{A}$ ) or GTL-104 x 1 ( $\leq 10\text{A}$ )  
European test lead GTL-203x1 ( $\leq 3\text{A}$ ) or GTL-204x1 ( $\leq 10\text{A}$ )