

# Linear D.C. Power Supply



GPS-1830D/1850D/3030D



GPS-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                              |  |
|---|--|
| <b>CONSTANT VOLTAGE OPERATION</b>           |  |
| <b>Regulation</b>                           | Line regulation $\leq 0.01\% + 3mV$<br>Load regulation $\leq 0.01\% + 3mV$ (rating current $\leq 3A$ )<br>$\leq 0.01\% + 5mV$ (rating current $> 3A$ ) |
| <b>Ripple &amp; Noise</b>                   | $\leq 0.5mVrms$ 5Hz ~ 1MHz (rating current $\leq 3A$ )<br>$\leq 1mVrms$ 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 / °C  |
| <b>Output Range</b>                         | 0 to rating voltage continuously adjustable  |
| <b>CONSTANT CURRENT OPERATION</b>           |  |
| <b>Regulation</b>                           | Line regulation $\leq 0.2\% + 3mA$<br>Load regulation $\leq 0.2\% + 3mA$   |
| <b>Ripple Current</b>                       | $\leq 3mA_{rms}$   |
| <b>Output Range</b>                         | 0 to rating current continuously adjustable<br>(Hi / Lo range switchable)  |
| <b>METER</b>                                |  |
| <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 $\pm(0.5\%$ of rdg + 2 digits)        |
| <b>INSULATION</b>                           |  |
| <b>Chassis and Terminal</b>                 | 20M $\Omega$ or above (DC 500V)  |
| <b>Chassis and AC Cord</b>                  | 30M $\Omega$ or above (DC 500V)  |
| <b>POWER SOURCE</b>                         |  |
| AC 100V/120V/220V/240V $\pm 10\%$ , 50/60Hz |  |
| <b>DIMENSIONS</b>                           |  |
| 128(W) x 145(H) x 285(D) mm                 |  |

| ORDERING INFORMATION   |            |                       |                |             |   |
|--|------------|-----------------------|----------------|-------------|---|
|  | Model      | Output Volts(V)       | Output Amps(A) | Weight (kg) |   |
|  | 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 ( $\leq 10A$ ) |            |                       |                |             |   |