

Linear D.C. Power Supply



GPS-1830D/1850D/3030D



GPS-1850/3030/6010



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 are single output, 54 to 90W, linear DC power supplies. The GPS-Series include both analog and digital display meters with varying power outputs. The GPS-Series feature 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 $\leq 0.01\% + 3mV$ Load regulation $\leq 0.01\% + 3mV$ (rating current $\leq 3A$) $\leq 0.01\% + 5mV$ (rating current $> 3A$) |
| Ripple & Noise | $\leq 0.5mVrms$ 5Hz ~ 1MHz (rating current $\leq 3A$) $\leq 1mVrms$ 5Hz ~ 1MHz (rating current $> 3A$) |
| Recovery Time | $\leq 100\mu S$ (50% load change, minimum load 0.5A) |
| Temp. Coefficient | $\leq 300 ppm / ^\circ C$ |
| 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 | $\leq 3mA$ |
| 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-6010 | 0 ~ 60 | 0 ~ 1 | 4 | |
| 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 ($\leq 10A$) | | | | |

Triple Output Linear D.C. Power Supply



GPC-1850D/3030D/3060D/6030D



(Note: GPC-3060D/6030D are not CE approved.)



GPC-3030DQ



FEATURES

- * Four Digital Panel Meters (GPC-3030DQ)
- * Triple Output
- * Auto Tracking
- * Auto Series and Parallel Operation
- * Constant Voltage and Constant Current Operation
- * Low Ripple and Noise
- * Internal Select for Continuous or Dynamic Load
- * Overload and Reverse Polarity Protection
- * 3 1/2 Digits 0.39" LED Display (GPC-3030DQ)
- * 3 1/2 Digits 0.5" LED Display (GPC-1850D/3030D/3060D/6030D)
- * 5V, 3A Fixed Output

The GPC-Series are triple output, 195 to 375W, linear DC power supplies. Channel 1 and 2 are fully adjustable (model dependant) and channel 3 is fixed at 5V/3A with ripple and noise at less than 2mVrms. Overload and reverse polarity protection keep GPC-Series and its loads safe from unexpected conditions. The GPC-3030DQ contains a temperature controlled cooling fan for thermal protection. The GPC features continuous or dynamic internal load selection and series or parallel tracking for application flexibility. The GPC-Series is an ideal solution for inexpensive bench-top applications requiring low noise and multiple outputs.

| SPECIFICATIONS | |
|---|--|
| OPERATION MODE | |
| Independent | Two independent outputs and 5V fixed output |
| Series | Output from 0 to rating volts and 0 to rating amperes |
| Parallel | Output from 0 to \pm rating volts at rating amperes each Output from 0 to double rating volts at rating amperes Output from 0 to double rating amperes at rating volts |
| 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 $\leq 10A$) $\leq 0.02\% + 5mV$ (rating current $\geq 10A$) |
| Ripple & Noise | $\leq 1mVrms$ 5Hz ~ 1MHz |
| Recovery Time | $\leq 100\mu S$ (50% Load change, Minimum load 0.5A) |
| CONSTANT CURRENT OPERATION | |
| Regulation | Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$ (for GPC-1850D/GPC-3030D/GPC-3030DQ) Load regulation $\leq 0.2\% + 5mA$ (for GPC-3060D/GPC-6030D) |
| Ripple Current | $\leq 3mA$ |
| 5V FIXED OUTPUT | |
| Regulation | Line regulation $\leq 5mV$ Load regulation $\leq 10mV$ |
| Ripple & Noise | $\leq 2mVrms$ |
| Voltage Accuracy | $5V \pm 0.25V$ |
| Output Current | 3A |
| TRACKING OPERATION | |
| Tracking Error | $\leq 0.5\% + 10mV$ of the master |
| Series Regulation | $\leq 300mV$ |
| METER | |
| Digital | 3 1/2 digits 0.5" LED display 3 1/2 digits 0.39" LED display (for GPC-3030DQ) Accuracy $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$ |
| INSULATION | |
| Chassis and Terminal | 20M Ω or above (DC 500V) |
| Chassis and AC Cord | 100M Ω or above (DC 1000V) (for GPC-3060D/6030D) 30M Ω or above (DC 500V) 100M Ω or above (DC 1000V) (for GPC-3060D/6030D) |
| POWER SOURCE | |
| AC 100V/120V/220V/240V $\pm 10\%$, 50/60Hz | |
| DIMENSIONS | |
| 255(W) x 145(H) x 420(D) mm | |

| ORDERING INFORMATION | | | | | |
|--|--|---------|----------|-------------|--|
| Model | Independent | Series | Parallel | Weight (kg) | |
| GPC-1850D | 195W D.C. Power Supply (0 ~ 18V/0 ~ 5A) x 2, (5V/3A MAX) x 1 | 36V 5A | 18V 10A | 11.5 | |
| GPC-3030D | 195W D.C. Power Supply (0 ~ 30V/0 ~ 3A) x 2, (5V/3A MAX) x 1 | 60V 3A | 30V 6A | 11.5 | |
| GPC-6030D | 375W D.C. Power Supply (0 ~ 60V/0 ~ 3A) x 2, (5V/3A MAX) x 1 | 120V 3A | 60V 6A | 18.5 | |
| GPC-3060D | 375W D.C. Power Supply (0 ~ 30V/0 ~ 6A) x 2, (5V/3A MAX) x 1 | 60V 6A | 30V 12A | 18.5 | |
| GPC-3030DQ | 195W D.C. Power Supply (0 ~ 30V/0 ~ 3A) x 2, (5V/3A MAX) x 1 | 60V 3A | 30V 6A | 11.5 | |
| ACCESSORIES : | | | | | |
| User manual x 1, Power cord x 1 | | | | | |
| Test lead GTL-105A x 1 ($\leq 3A$) or GTL-104A x 2 ($\leq 10A$) | | | | | |
| European test lead GTL-203A x 1 ($\leq 3A$) or GTL-204A x 2 ($\leq 10A$) | | | | | |
| OPTIONAL ACCESSORIES | | | | | |
| GRA-401 Rack Adapter Panel | | | | | |