

# TRIPLE OUTPUT LINEAR D.C. POWER SUPPLY



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

CE Patent No: 81011  
(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                        |  |
|---------------------------------------|--|
| <b>OPERATION MODE</b>                 |  |
| <b>Independent</b>                    | Two independent outputs and 5V fixed output<br>Output from 0 to rating volts and 0 to rating amperes   |
| <b>Series</b>                         | Output from 0 to ± rating volts at rating amperes each<br>Output from 0 to double rating volts at rating amperes   |
| <b>Parallel</b>                       | Output from 0 to double rating amperes at rating volts   |
| <b>CONSTANT VOLTAGE OPERATION</b>     |  |
| <b>Regulation</b>                     | Line regulation ≤ 0.01% + 3mV<br>Load regulation ≤ 0.01% + 3mV (rating current ≤ 3A)<br>≤ 0.01% + 5mV (rating current ≤ 10A)<br>≤ 0.02% + 5mV (rating current ≥ 10A) |
| <b>Ripple &amp; Noise</b>             | ≤ 1mVrms 5Hz ~ 1MHz  |
| <b>Recovery Time</b>                  | ≤ 100μS ( 50% Load change, Minimum load 0.5A )   |
| <b>CONSTANT CURRENT OPERATION</b>     |  |
| <b>Regulation</b>                     | Line regulation ≤ 0.2% + 3mA<br>Load regulation ≤ 0.2% + 3mA (for GPC-1850D/GPC-3030D/GPC-3030DQ)<br>Load regulation ≤ 0.2% + 5mA (for GPC-3060D/GPC-6030D)          |
| <b>Ripple Current</b>                 | ≤ 3mA Arms   |
| <b>5V FIXED OUTPUT</b>                |  |
| <b>Regulation</b>                     | Line regulation ≤ 5mV<br>Load regulation ≤ 10mV  |
| <b>Ripple &amp; Noise</b>             | ≤ 2mVrms   |
| <b>Voltage Accuracy</b>               | 5V ± 0.25V   |
| <b>Output Current</b>                 | 3A   |
| <b>TRACKING OPERATION</b>             |  |
| <b>Tracking Error</b>                 | ≤ 0.5% + 10mV of the master  |
| <b>Series Regulation</b>              | ≤ 300mV  |
| <b>METER</b>                          |  |
| <b>Digital</b>                        | 3 1/2 digits 0.5" LED display<br>3 1/2 digits 0.39" LED display (for GPC-3030DQ)<br>Accuracy ± ( 0.5% of rdg + 2 digits )  |
| <b>INSULATION</b>                     |  |
| <b>Chassis and Terminal</b>           | 20MΩ or above ( DC 500V )<br>100MΩ or above ( DC 1000V ) (for GPC-3060D/6030D)   |
| <b>Chassis and AC Cord</b>            | 30MΩ or above ( DC 500V )<br>100MΩ or above ( DC 1000V ) (for GPC-3060D/6030D)   |
| <b>POWER SOURCE</b>                   |  |
| AC 100V/120V/220V/240V ± 10%, 50/60Hz |  |
| <b>DIMENSIONS</b>                     |  |
| 255(W) x 145(H) x 346(D) mm           |  |

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

POWER SUPPLIES