

# 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**

CE

## 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 Output from 0 to rating volts and 0 to rating amperes
<b>Series</b>	Output from 0 to ± rating volts at rating amperes each 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 Load regulation ≤ 0.01% + 3mV (rating current ≤ 3A) ≤ 0.01% + 5mV (rating current ≤ 10A) ≤ 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 Load regulation ≤ 0.2% + 3mA (for GPC-1850D/GPC-3030D/GPC-3030DQ) 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 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 3 1/2 digits 0.39" LED display (for GPC-3030DQ) Accuracy ± ( 0.5% of rdg + 2 digits )
<b>INSULATION</b>	
<b>Chassis and Terminal</b>	20MΩ or above ( DC 500V ) 100MΩ or above ( DC 1000V ) (for GPC-3060D/6030D)
<b>Chassis and AC Cord</b>	30MΩ or above ( DC 500V ) 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 )

### OPTIONAL ACCESSORIES

GRA-401 Rack Adapter Panel