

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	
OPERATION MODE	
Independent	Two independent outputs and 5V fixed output Output from 0 to rating volts and 0 to rating amperes
Series	Output from 0 to ± rating volts at rating amperes each Output from 0 to double rating volts at rating amperes
Parallel	Output from 0 to double rating amperes at rating volts
CONSTANT VOLTAGE OPERATION	
Regulation	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)
Ripple & Noise	≤ 1mVrms 5Hz ~ 1MHz
Recovery Time	≤ 100μS (50% Load change, Minimum load 0.5A)
CONSTANT CURRENT OPERATION	
Regulation	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)
Ripple Current	≤ 3mA Arms
5V FIXED OUTPUT	
Regulation	Line regulation ≤ 5mV Load regulation ≤ 10mV
Ripple & Noise	≤ 2mVrms
Voltage Accuracy	5V ± 0.25V
Output Current	3A
TRACKING OPERATION	
Tracking Error	≤ 0.5% + 10mV of the master
Series Regulation	≤ 300mV
METER	
Digital	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)
INSULATION	
Chassis and Terminal	20MΩ or above (DC 500V) 100MΩ or above (DC 1000V) (for GPC-3060D/6030D)
Chassis and AC Cord	30MΩ or above (DC 500V) 100MΩ or above (DC 1000V) (for GPC-3060D/6030D)
POWER SOURCE	
AC 100V/120V/220V/240V ± 10%, 50/60Hz	
DIMENSIONS	
255(W) x 145(H) x 346(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-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					