

TRIPLE OUTPUT LINEAR D.C. POWER SUPPLY



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



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 is triple output, 195 to 375W, linear DC power supply. Overload and reverse polarity protection keep GPC and loads safe from unexpected conditions. Low ripple and noise are maintained at less than 2mVrms. GPC-3030DQ contains cooling fan with its speed automatically adjusted according to heatsink temperature, enhancing thermal protection. Internal load selection, continuous or dynamic, accommodates certain applications such as pulsed current. 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 ± 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 ≤ 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
Ripple Current	≤ 3mA rms
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)					
Optional Accessories					
GRA-401 Rack Adapter Panel					

POWER SUPPLIES