

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 are 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 $\leq 0.01\% + 3\text{mV}$ Load regulation $\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$) $\leq 0.01\% + 5\text{mV}$ (rating current $\leq 10\text{A}$) $\leq 0.02\% + 5\text{mV}$ (rating current $\geq 10\text{A}$)
Ripple & Noise	$\leq 1\text{mVrms}$ 5Hz ~ 1MHz
Recovery Time	$\leq 100\mu\text{s}$ (50% Load change, Minimum load 0.5A)
CONSTANT CURRENT OPERATION	
Regulation	Line regulation $\leq 0.2\% + 3\text{mA}$ Load regulation $\leq 0.2\% + 3\text{mA}$ (for GPC-1850D/GPC-3030D/GPC-3030DQ)
Ripple Current	Load regulation $\leq 0.2\% + 5\text{mA}$ (for GPC-3060D/GPC-6030D) $\leq 3\text{mArms}$
5V FIXED OUTPUT	
Regulation	Line regulation $\leq 5\text{mV}$ Load regulation $\leq 10\text{mV}$
Ripple & Noise	$\leq 2\text{mVrms}$
Voltage Accuracy	$5\text{V} \pm 0.25\text{V}$
Output Current	3A
TRACKING OPERATION	
Tracking Error	$\leq 0.5\% + 10\text{mV}$ of the master
Series Regulation	$\leq 300\text{mV}$
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) 100M Ω or above (DC 1000V) (for GPC-3060D/6030D)
Chassis and AC Cord	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 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 ($\leq 3\text{A}$) or GTL-104 x 2 ($\leq 10\text{A}$)					
European test lead GTL-203 x 1 ($\leq 3\text{A}$) or GTL-204 x 2 ($\leq 10\text{A}$)					
OPTIONAL ACCESSORIES					
GRA-401 Rack Adapter Panel					