

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 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 $\leq 0.01\% + 3mV$ Load regulation $\leq 0.01\% + 3mV$ (rating current $\leq 3A$) $\leq 0.01\% + 5mV$ (rating current $\leq 10A$) $\leq 0.02\% + 5mV$ (rating current $\geq 10A$)
Ripple & Noise	$\leq 1mVrms$ 5Hz ~ 1MHz
Recovery Time	$\leq 100\mu S$ (50% Load change, Minimum load 0.5A)

CONSTANT CURRENT OPERATION

Regulation	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$
Ripple Current	$\leq 3mA_{rms}$

5V FIXED OUTPUT

Regulation	Line regulation $\leq 5mV$ Load regulation $\leq 10mV$
Ripple & Noise	$\leq 2mVrms$
Voltage Accuracy	$5V \pm 0.25V$
Output Current	3A

TRACKING OPERATION

Tracking Error	$\leq 0.5\% + 10mV$ of the master
Series Regulation	$\leq 300mV$

METER

Digital	3 1/2 digits 0.5" LED display 3 1/2 digits 0.39" LED display (for GPC-3030DQ) Accuracy $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$
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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 ($\leq 3A$) or GTL-104 x 2 ($\leq 10A$)

Optional Accessories

GRA-401 Rack Adapter Panel