

## Linear D.C. Power Supply



GPS-1830D/1850D/3030D



GPS-1850/3030/6010



GPS-3030DD



### FEATURES

- \* Light and Compact Design
- \* 0.01% High Regulation
- \* Constant Voltage and Constant Current Operation
- \* Remote Control for External Programmability
- \* Internal Select for Continuous or Dynamic Load
- \* Low Ripple and Noise
- \* Overload and Reverse Polarity Protection
- \* Series or Parallel Operation
- \* Optional European Type Jack Terminal for GPS-3030/GPS-3030D/GPS-3030DD

The GPS-Series are single output, 54 to 90W, linear DC power supplies. The GPS-Series include both analog and digital display meters with varying power outputs. The GPS-Series feature overload and reverse polarity protection as well as high regulation and low ripple/noise that are maintained at 0.01% and < 1mVrms, respectively. Continuous or dynamic internal load selection accommodates applications such as pulsed current. Remote control terminals offer programming and operation from an external device.

SPECIFICATIONS	
<b>CONSTANT VOLTAGE OPERATION</b>	
<b>Regulation</b>	Line regulation $\leq 0.01\% + 3mV$ Load regulation $\leq 0.01\% + 3mV$ (rating current $\leq 3A$ ) $\leq 0.01\% + 5mV$ (rating current $> 3A$ )
<b>Ripple &amp; Noise</b>	$\leq 0.5mVrms$ 5Hz ~ 1MHz (rating current $\leq 3A$ ) $\leq 1mVrms$ 5Hz ~ 1MHz (rating current $> 3A$ )
<b>Recovery Time</b>	$\leq 100\mu S$ (50% load change, minimum load 0.5A)
<b>Temp. Coefficient</b>	$\leq 300 ppm / ^\circ C$
<b>Output Range</b>	0 to rating voltage continuously adjustable
<b>CONSTANT CURRENT OPERATION</b>	
<b>Regulation</b>	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$
<b>Ripple Current</b>	$\leq 3mA_{rms}$
<b>Output Range</b>	0 to rating current continuously adjustable (Hi / Lo range switchable)
<b>METER</b>	
<b>Analog</b>	V-meter and I-meter 2.5 class Dimensions 50 x 50 mm
<b>Digital</b>	3 1/2 digits 0.5" LED display (GPS-1830D/1850D/3030D) 3 1/2 digits 0.39" LED display (GPS-3030DD) Accuracy $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$
<b>INSULATION</b>	
<b>Chassis and Terminal</b>	20M $\Omega$ or above (DC 500V)
<b>Chassis and AC Cord</b>	30M $\Omega$ or above (DC 500V)
<b>POWER SOURCE</b>	
AC 100V/120V/220V/240V $\pm 10\%$ , 50/60Hz	
<b>DIMENSIONS</b>	
128(W) x 145(H) x 285(D) mm	

ORDERING INFORMATION				
Model	Output Volts(V)	Output Amps(A)	Weight (kg)	
GPS-1850	0 ~ 18	0 ~ 5	5.5	
GPS-3030	0 ~ 30	0 ~ 3	5	
GPS-6010	0 ~ 60	0 ~ 1	4	
GPS-1830D	0 ~ 18	0 ~ 3	4	
GPS-1850D	0 ~ 18	0 ~ 5	5	
GPS-3030D	0 ~ 30	0 ~ 3	5	
GPS-3030DD	0 ~ 30	0 ~ 3	5	
ACCESSORIES :				
User manual x 1, Power cord x 1				
Test lead GTL-105A x 1 ( $\leq 3A$ ) or GTL-104A x 1 ( $\leq 10A$ )				
European test lead GTL-203A x 1 ( $\leq 3A$ ) or GTL-204A x 1 ( $\leq 10A$ )				

## Triple Output Linear D.C. Power Supply



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



(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	
<b>OPERATION MODE</b>	
<b>Independent</b>	Two independent outputs and 5V fixed output
<b>Series</b>	Output from 0 to rating volts and 0 to rating amperes
<b>Parallel</b>	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
<b>CONSTANT VOLTAGE OPERATION</b>	
<b>Regulation</b>	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 $\geq 10A$ )
<b>Ripple &amp; Noise</b>	$\leq 1mVrms$ 5Hz ~ 1MHz
<b>Recovery Time</b>	$\leq 100\mu S$ (50% Load change, Minimum load 0.5A)
<b>CONSTANT CURRENT OPERATION</b>	
<b>Regulation</b>	Line regulation $\leq 0.2\% + 3mA$ Load regulation $\leq 0.2\% + 3mA$ (for GPC-1850D/GPC-3030D/GPC-3030DQ) Load regulation $\leq 0.2\% + 5mA$ (for GPC-3060D/GPC-6030D)
<b>Ripple Current</b>	$\leq 3mA_{rms}$
<b>5V FIXED OUTPUT</b>	
<b>Regulation</b>	Line regulation $\leq 5mV$ Load regulation $\leq 10mV$
<b>Ripple &amp; Noise</b>	$\leq 2mVrms$
<b>Voltage Accuracy</b>	$5V \pm 0.25V$
<b>Output Current</b>	3A
<b>TRACKING OPERATION</b>	
<b>Tracking Error</b>	$\leq 0.5\% + 10mV$ of the master
<b>Series Regulation</b>	$\leq 300mV$
<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 $\pm (0.5\% \text{ of rdg} + 2 \text{ digits})$
<b>INSULATION</b>	
<b>Chassis and Terminal</b>	20M $\Omega$ or above (DC 500V)
<b>Chassis and AC Cord</b>	100M $\Omega$ or above (DC 1000V) (for GPC-3060D/6030D) 30M $\Omega$ or above (DC 500V) 100M $\Omega$ or above (DC 1000V) (for GPC-3060D/6030D)
<b>POWER SOURCE</b>	
AC 100V/120V/220V/240V $\pm 10\%$ , 50/60Hz	
<b>DIMENSIONS</b>	
255(W) x 145(H) x 420(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-105A x 1 ( $\leq 3A$ ) or GTL-104A x 2 ( $\leq 10A$ )					
European test lead GTL-203A x 1 ( $\leq 3A$ ) or GTL-204A x 2 ( $\leq 10A$ )					
<b>OPTIONAL ACCESSORIES</b>					
GRA-401 Rack Adapter Panel					

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