



Digital Linear Power Supplies

PSU300 Series
Starts at
\$452



- ✓ True Constant Voltage and Constant Current Performance
- ✓ 12-Bit D/A Converter
- ✓ 2 x 16 Dot-Matrix Backlit LCD; Voltage and Current are Displayed Simultaneously
- ✓ Software Calibration
- ✓ Sophisticated Cooling System
- ✓ RS232 Output
- ✓ Beeper-Overload Warning and Status Change Indication
- ✓ Up/Down Key for Easy Setting
- ✓ Numeric Keyboard for Direct Setting (PSU305 Only)
- ✓ Single Channel, Dual Range
- ✓ Auto-Ranging (PSU301, PSU302 Only)
- ✓ Three Channels—2 Adjustable and 1 Fixed Output: 5 V or 3.3 V (PSU304, PSU305 Only)



PSU304, \$580, shown smaller than actual size.



PSU305, \$770, shown smaller than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Voltage	Wattage
PSU301	\$452	0 to 30	30
PSU304	580	0 to 30	70
PSU305	770	-30 to 30	165
EE-2451	160	Reference Book: The Electronics Handbook	

The PSU300 Series comprises power supplies with voltages from -30 to 30 Vdc, power levels from 30 to 165 W, and constant current from 0 to 3 A. Standard features include RS232 communications output, LCD, sophisticated cooling system, and software calibration.

Comes with power cord, fuse and complete operator's manual.

Ordering Example: PSU301, linear power supply, \$452.

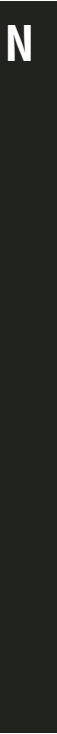
PSU300 Series,
shown smaller
than actual size.



Specifications

Model	PSU301		PSU304	PSU305
Max Output Power	30 W		70 W	165 W
Output Voltage	HIGH	LOW		
	0 to 15 V	0 to 30 V	0 to 30 V/ 0 to -30 V fixed 5 V	0 to 30 V/ 0 to -30 V fixed 3.3 V/5 V
Setting Resolution	10 mV	10 mV	10 mV	10 mV
Max Output Voltage	16 V	32 V	32/-32 V	32/-32 V
Dual Tracking	—	—	0 to ±30 V	0 to ±30 V
Tracking Deviation	—	—	±20 mV	±20 mV
Output Current	0 to 2 A	0 to 1 A	0 to 1 A/ 0 to -1 A 2 A	0 to 2.5 A/ 0 to -2.5 A 3 A
Setting Resolution	1 mA	1 mA	1 mA	1 mA
Max Output Current	2.4 A	1.2 A	1.2 A/-1.2 A CL = 2.2 A	3 A/-3 A CL = 3.3 A
Dual Tracking	—	—	0 to ±1 A	0 to ±2.5 A
Tracking Deviation	—	—	±2 mA	±5 mA
CONSTANT VOLTAGE CHARACTERISTICS (AT RATED OUTPUTS)				
Line Regulation (10% AC)	—	—	1 mV 5 mV	1 mV 5 mV
Load Regulation (100% Load Change)	—	—	2 mV 10 mV	2 mV 10 mV
Ripple/Noise rms (10 Hz to 20 MHz)	—	—	1.5 mVrms 2 mVrms	2 mVrms
Ripple/Noise Peak (10 Hz to 20 MHz)	—	—	10 mV p-p 20 mV p-p	10 mV p-p 20 mV p-p
Transient Response	—	—	200 s typical	200 s typical
Temp Coefficient	—	—	100 ppm/°C typical	
CONSTANT CURRENT CHARACTERISTICS (AT RATED OUTPUTS)				
Line Regulation (10% AC)	—	—	15 mA typical	15 mA typical
Load Regulation (100% Load Change)	—	—	10 mA typical	10 mA typical
Ripple/Noise rms (10 Hz to 20 MHz)	—	—	1 mA rms typical	1 mA rms typical
Ripple/Noise Peak (10Hz to 20MHz)	—	—	5 mA p-p typical	5 mA p-p typical
Temp Coefficient	—	—	200 ppm typical	
Display	16 character x 2 line backlit LCD; front-panel status indicator with beeper			
Voltage Accuracy*	±0.2% rdg + 2 digits			
Current Accuracy*	±0.5% rdg + 5 digits			
Common Mode Voltage	±240 Vdc			
Temp Range	Operating: 0 to 40°C (32 to 104°F), less than 80% RH; Storage: -45 to 75°C (-49 to 167°F), less than 80% RH			
Dimensions (W x H x L)	221 x 86 x 300 mm (8.7 x 3.4 x 11.8")			213 x 132 x 399 mm (8.4 x 5.2 x 15.7")
Weight	Approx. 4.5 kg (10 lb)		Approx 5.4 kg (12 lb)	Approx 8.2 kg (18 lb)
Cooling	Forced air			
RS232 Interface	Standard, port configuration: asynchronous 2400 baud, 8 data bits, 1 stop bit, no parity			
RS232C DCE Interface	9-pin D-sub connector			
Power 115 Vac ±10%	47 to 63 Hz, 1 A, approx 250 W		47 to 63 Hz, 2 A, approx 110 W	47 to 63 Hz, 2 A, approx 250 W

* For output of less than 5% of rated output, add 5 digits to the accuracy specification.



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