



PPS Series

Programmable linear power supplies



PPS Series of Programmable Power Supplies combine several advanced functional features with an amazing simplicity in its operation. Easy to use front panel control with its embedded micro controller enables to set the desired voltage & current. Its internal diagnostics continuously monitors the power supply during its turn ON and at different LOAD levels. Lesser internal wiring enhances its reliability and lower noise level. These Units can be ordered with three options for its remote communications, namely IEEE 488.2 GPIB or RS 232 or RS 485. The outputs are isolated and can be connected externally in series or in parallel.

These PPS Series of linear power supplies offer a wide range of rack mount and bench top models from 300W to 3000kW. Voltage ranges are available from 5V to 350V DC and precision current ratings up to 100A as standard. However should your power supply requirement differ than our standard models, you can always ask for our customization option, which can be designed to fit your application.

These power supplies are suited for ultra low noise applications such as transducers/sensor excitation and analog data acquisition instrumentation. Its very low EMC disturbance, both conducted and radiated make it ideal for medical and hospital applications.

Features:

- Digital programmability using embedded micro controller
- Excellent programming Resolution and Accuracy
- Simultaneous GPIB, RS 232 & SCPI interface, optional ethernet & USB
- OVP, OCP and OTP protection, CV/CC cross over
- Suitable for bench top as well as rack mount applications
- Closed case calibration
- Full front panel controls, master slave capabilities possible
- Sleek, elegant enclosure to suit rack mount & bench top use
- Meets safety standards as per UL 60950

PPS 300W to 1000W	
PPS 1650	0-16V/0-50A
PPS 3230	0-32V/0-30A
PPS 6005	0-60V/0-05A
PPS 7512	0-75V/0-12A

PPS 2000W	
PPS 10200	0-10V/0-200A
PPS 20100	0-20V/0-100A
PPS 4050	0- 40V/0- 50A
PPS 8025	0- 80V/0- 25A

Suffix OD I: for RS232, OD II: for GPIB & OD III: for RS485

General Specifications

AC input voltage	PPS300-1000	115/230V AC, $\pm 10\%$, 50Hz, 1phase, factory set to 230V AC.
	PPS2000-3000	230V AC, $\pm 10\%$, 50Hz, 1phase
Voltage mode transient response	For all models	Better than 100uS for load change from 40% to 90%
Minimum voltage differential	For all models	± 600 V DC from output to safety ground
Maximum remote sense compensation	For all models	0.5V/Line
Operating temperature	For all models	0 to 40°C
Storage temperature	For all models	-20 to 70°C
Humidity	For all models	Upto 90% RH non- condensing
Front panel voltage & current controls	For all models	10 turn potentiometers for voltage, current & over voltage set/digital rotary encoder
Input AC connection	PPS300-1000	3 core, 20A, 250V line cord without plug/16 A, 250V line socket
	PPS2000-3000	3 core, 30A, 250V line cord without plug.
Dimensions & Weight	PPS300-1000	19" W, 3U H, 450mm, 22Kgs.
	PPS2000	PPS2000: 19" W, 3U H, 600mm, 42Kgs.
Conforming standards		CE mark: meets EN55022, class A, safety standard EN60950

Specification subject to change without notice.

Electrical Specifications

PPS300-1000 Specifications

Models	PPS1650	PPS3230	PPS6005	PPS7512
OUTPUT RATING				
O/P voltage	0-16V	0-32V	0-60V	0-75V
O/P current	0-50A	0-30A	0-05A	0-12A
O/P power	800W	960W	300W	960W
LINE REGULATION				
Voltage		0.02%		
Current		0.025%		
LOAD REGULATION				
Voltage		0.02%		
Current		0.075%		
METER ACCURACY				
Voltage		0.1% of full scale		
Current		0.5% of full scale		
OUTPUT RIPPLE & NOISE (RMS) (90-20MHz)				
Voltage		<2mV		
Current		<5mA		
TEMP. COEFFICIENT				
Voltage		0.05%(of Vmax./°C)		
Current		0.05%(of Imax./°C)		

PPS2000-3000 Specifications

Models	PPS10200	PPS20100	PPS4050	PPS8025
OUTPUT RATING				
O/P voltage	0-10V	0-20V	0-40V	0-80V
O/P current	0-200A	0-100A	0-50A	0-25A
O/P power		2000W		
LINE REGULATION				
Voltage		0.02%		
Current		0.025%		
LOAD REGULATION				
Voltage		0.02%		
Current		0.075%		
METER ACCURACY				
Voltage		0.1% of full scale		
Current		0.5% of full scale		
OUTPUT RIPPLE & NOISE (RMS) (90-20MHz)				
Voltage		<2mV		
Current	<100mA	<100mA	<50mA	<25mA
TEMP. COEFFICIENT				
Voltage		0.05%(of Vmax./°C)		
Current		0.05%(of Imax./°C)		

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Specifications indicate typical performance at 25°C ±5°C, nominal input of 120V AC/230V AC



POWER CONTROLS & CONVERSION DIVISION

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