

PPS 2U 3000W SERIES

High Precision Series Programmable DC Power Supplies



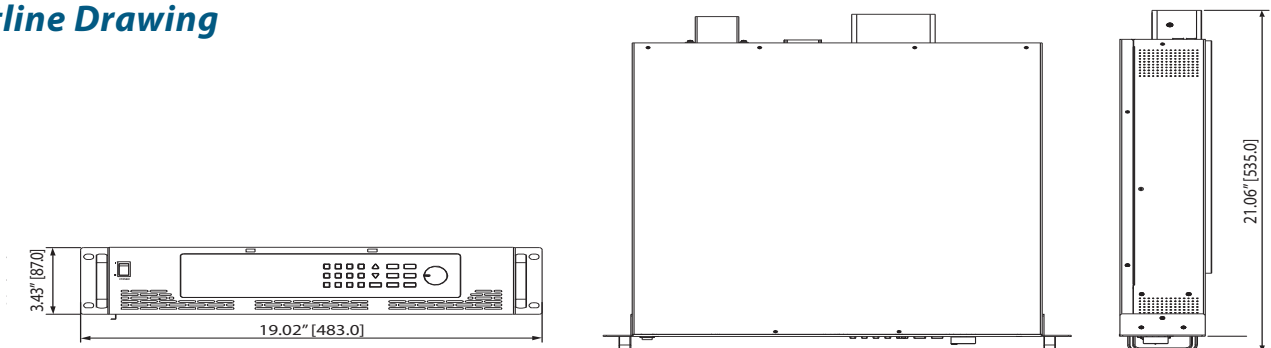
Applications

- ◆ PPS Series 3000W is a switch-mode single output programmable DC Power Supply providing high power density in a 2U (3.5" Height) stand-alone or rack-mount system. It is a high-precision programmable DC source using 16 bit D/A & 24 bit A/D sampling circuits, and with voltage and current resolution of up to 0.1mV and 0.2mA respectively. The unit allows Master/Slave Series/Parallel modes and multiple communication interfaces, which allows a more flexible and convenient use of the power supply.
- ◆ These units are ideal for automatic test equipment (ATE) as well as electronic laboratories for testing any electronic industrial or medical equipment. Additionally these power supplies can be used for burn-in of power supplies and DC-DC converters.

Features

- 3000 kW / 2U high power density
- Master/Slave parallel & series operation modes for up to 4 units
- Accurate voltage and current measurement capability
- High-speed programmable interface
- Coded knob, multifunctional keyboard
- Automatic switchover between constant voltage (CV) and constant current (CC) operating modes
- Software controlled voltage rate of rise and fall functions
- Equipped with LIST waveform editing function
- Protection functions: OVP, OCP, OPP, SCP and OTP
- Standard RS232, RS485, LAN and USB communication interfaces (ports)
- Uses Standard Commands for Programmable Instrumentation (SCPI) communication protocol
- Standard analog external remote inputs
- Remote sensing line voltage-drop compensation
- DVM independent measurement function
- Certified to CE, UL, CSA, FCC
- Power supply monitoring software for remote operation of the unit
- Custom software programming possible

Outline Drawing



For more information, please visit us at www.mideastind.com or email us at meisales@theallpower.com

MODEL	PPS2U3000W75VDC	PPS2U3000W100VDC	PPS2U3000W120VDC	PPS2U3000W150VDC
Input Voltage Range	190 ~ 265 VAC	190 ~ 265 VAC	190 ~ 265 VAC	190 ~ 265 VAC
Input Frequency Range	47 ~ 63 Hz	47 ~ 63 Hz	47 ~ 63 Hz	47 ~ 63 Hz
Power Factor	> 0.99	> 0.99	> 0.99	> 0.99
Output Power Range	0 ~ 3000 W	0 ~ 3000 W	0 ~ 3000 W	0 ~ 3000 W
Output Voltage Range	0 ~ 75 V	0 ~ 100 V	0 ~ 120 V	0 ~ 150 V
Output Current Range	0 ~ 50 A	0 ~ 30 A	0 ~ 30 A	0 ~ 30 A
Voltage Display Resolution	0.1 mV	1 mV	1 mV	1 mV
Current Display Resolution	0.1 mA	0.1 mA	0.1 mV	0.1 mA
Voltage Programmable Resolution	1.5 mV	3 mV	3 mV	3 mV
Current Programmable Resolution	1.5 mA	1 mA	1 mA	1 mA
Voltage Setting Accuracy	0.05% +15mV	0.05% +15mV	0.05% +15mV	0.05% +15mV
Current Setting Accuracy	0.1% + 50 mA	0.1% + 30 mA	0.1% + 30 mA	0.1% + 30 mA
Voltage Measurement Accuracy	0.05% +15mV	0.05% +15mV	0.05% +15mV	0.05% +15mV
Current Measurement Accuracy	0.1% + 50 mA	0.1% + 30 mA	0.1% + 30 mA	0.1% + 30 mA
Voltage Ripple	80mVp - p/10mVrms	100mVp - p/15mVrms	100mVp - p/15mVrms	100mVp - p/15mVrms
Current Ripple	40mA	30mA	30mA	30mA
Voltage Load Regulation	15mV	15mV	15mV	15mV
Current Load Regulation	50mA	30mA	30mA	30mA
Line Voltage Regulation	0.01%+8mV	0.02%+8mV	0.02%+8mV	0.02%+8mV
Line Current Regulation	30mA	30mA	30mA	30mA
Voltage Temperature Coefficient	100ppm/°C (TYP Value)			
Current Temperature Coefficient	300ppm/°C (TYP Value)			
DVM Resolution	0.1mV	0.1mV	0.1mV	0.1mV
DVM Accuracy	0.05%+15mV	0.01%+15mV	0.01%+15mV	0.01%+15mV
Operating Mode	Constant Voltage (CV) / Constant Current (CC)			
Remote Compensation	5V max			
Response (Voltage Rise)	≤ 15 ms	≤ 20 ms	≤ 20 ms	≤ 30 ms
Response (Voltage Drop)	≤ 450 ms (No Load) ≤ 20 ms (Full Load)	≤ 500 ms (No Load) ≤ 12 ms (Full Load)	≤ 500 ms (No Load) ≤ 18 ms (Full Load)	≤ 500 ms (No Load) ≤ 25 ms (Full Load)
Load Transient Recovery Time	≤ 2 ms	≤ 2 ms	≤ 2 ms	≤ 2.5 ms
Command Respond Time	50ms	50ms	50ms	50ms
Efficiency (Full Load)	92%	92%	92%	93%
Communication Modes	1. RS232 / RS485 / USB / LAN 2. RS232 / RS485 / USB / LAN/GPIB			
Protection Functions	OVP / OCP / OTP / OPP / SCP Protection functions			
Net Weight	29.10 lb / 13.2 kg	29.10 lb / 13.2 kg	29.10 lb / 13.2 kg	29.10 lb / 13.2 kg
Weight of Accessories	2.20 lb / 1 kg	2.20 lb / 1 kg	2.20 lb / 1 kg	2.20 lb / 1 kg
Dimensions [mm] (W x H x D)	19.02" x 3.73" x 22.87" [483 x 87 x 581]	19.02" x 3.73" x 22.87" [483 x 87 x 581]	19.02" x 3.73" x 22.87" [483 x 87 x 581]	19.02" x 3.73" x 22.87" [483 x 87 x 581]
Operating Environment	Temp.: 0°C to 50°C, 2% power derating per °C when temp above 40°C. Relative humidity: 10% to 90% (non-condensing)			
Cooling	Forced Cooling			
Certification	CE / UL / CSA / FCC			



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