

Power Factor Correction technology

Low EMI

LED indicators for operation and errors

Rugged and reliable

Switch-mode technology

Color-coded output terminals



3 YEAR WARRANTY



PWS1550

AC SOURCE POWER SUPPLIES

The PWS1550 Power Supply provides up to 1500 watts continuous and 1800 watts intermittent to power one or more DC loads from a 110 or 220 VAC source. Two positive and two negative output connections are provided for easy connection to multiple devices.

The recently updated design incorporates a brand new Power Factor Corrected (PFC) Input Stage. The PFC input stage increases the efficiency over the previous autoswitching technology and eliminates the dead spot between 110 and 220 VAC input allowing the power supply to run continuously from 90 – 264 VAC In at 45 – 65 Hz. The new power supply is identical to the previous power supply (PWS1505) in form, fit, and function and is a direct drop in replacement for its predecessor

Safety features include over-temperature shutdown, current limiting, short circuit protection with automatic recovery, input under voltage shutdown and output over-voltage protection. Additional features include visual indicators for low input voltage, overload and over-temperature, dry contact output fail output and remote control connection.

Available models

Input

110 and 220 VAC

Output

12V

24V

36V

48V

72V (rail)

Applications



PWS1550 | AC SOURCE POWER SUPPLIES

INPUT

Nominal Voltage	110 and 220 VAC
Actual Voltage	90-264 VAC in, 45-65 Hz
Input Amps	20A @ 90 VAC in
Input Fuse	25 A Slow Blow Part # MDA25A
Input Frequency	45 - 65 Hz
Noise on Input	< 50 mV
Power Factor	>0.99 @ 50/60Hz

OUTPUT

Nominal Voltage	12 VDC	24 VDC	36 VDC	48 VDC	72 (Rail) VDC
Actual Voltage	13.6 VDC	27.2 VDC	36.3 VDC	54.4 VDC	72.6 VDC
Output Volt. Adjust	+/- 0.5 V	+/- 1.0 V	+/- 1.5 V	+/- 2.0 V	+/- 3.0 V
Continuous Amps	100 A	60 A	36 A	28 A	20 A
Maximum Amps	120 A	66 A	43 A	33 A	24 A
Regulation (Line & Load)	< +/- 0.5%				
Output Overvoltage Protection Crowbar	17.0 ± 0.05 V	34.0 ± 1.0 V	45.0 ± 0.5 V	68.0 ± 2.0 V	90.0 ± 0.3 V
Efficiency	> 85% @ Full load				

MECHANICAL

Length	16.8 in / 42.7 cm
Width	8.2 in / 20.8 cm
Height	3.8 in / 9.7 cm
Clearance	1.0 in / 2.5 cm all around
Weight	18.0 lb / 8.2 kg
Material and Finish	Marine grade black anodized aluminum
Fasteners	18-8 Stainless steel
Input Connection	NEMA 5-15 plug with 2.5 m AWG14 cable (approx. length) (North America) or CEE 7/7 2.5 m cable (Europe)
Output Connection	Color coded Phoenix VDFK6 terminal blocks, 60 Amp rated

OPTIONS

European ROHS compliant
(Lead-free manufactured)

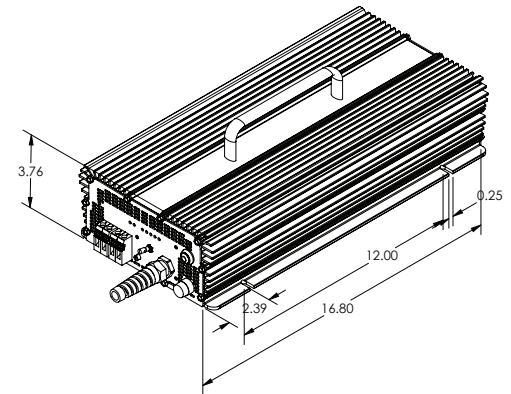
Integrated digital voltmeter/ammeter
(Increases case length by 3 inches)

Heavy-duty ruggedization with extra
wide operating temperature range

Custom input/output voltages
available

Waterproof units sealed to meet IP66
rating (IP67 with in-house testing and
certification also available)

DIMENSIONS



ENVIRONMENTAL AND SAFETY

Operating Temperature Range	-25°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temperature operation available)
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Isolation	Input-Case, Input-Output and Output-Case: 1500 VDC
Audible Noise	40 dB when fans operating
Typical Service Life	> 10 years (87,600 hrs)
Warranty	Three years parts and labor
Safety	Built to meet CSA 22.2.107.1 & UL458



ANALYTIC SYSTEMS
Power Conversion Solutions



Analyticsystems.com



Sales@analyticsystems.com



604.946.9981 800.668.3884



8128 River Way
Delta, B.C. V4G 1K5