

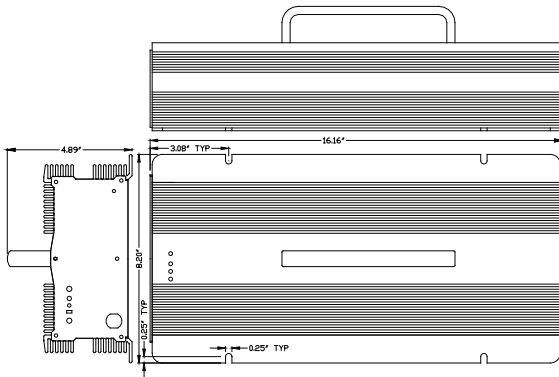


# ANALYTIC SYSTEMS

Power Conversion Solutions

## AC POWER SUPPLY

### MODEL PWS1505 Series



### Description

The PWS1505 Series of power supplies provide up to 1350 watts at 12, 24, 36, 48 or 72 Volt continuous power from a 110 or 220 Volt AC source.

Analytic Systems' power supplies use Switchmode technology with powerful IGBT switching transistors for reliability and efficiency with minimum size. Circuit innovations reduce output ripple to levels previously available only from bulky and inefficient linear power supplies. Reliability features include an input fuse, thermal shutdown, current limiting and output short circuit protection with automatic recovery. An Output Over voltage Crowbar circuit protects any powered devices from excessive voltage in the event of a failure of the unit.

The newly updated single-board PWS1505 is ultra-quiet and features the latest generation of current mode PWM control. Extra features include audible and visual indicators for low input voltage, over temperature, overload and output on. Either 110 or 220 VAC input (Field Convertible) is available.

The PWS1505 also features an easy to connect two contact output Anderson Plug and a standard NMEA - 110 VAC plug for plug-and-play installation.

### Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

### Design Features

- Ideal as a Trade Show Power Supply for Auto Shows
- Military-Grade extrusion ensures a high tolerance for shock and vibration
- Ultra-quiet low EMI operation (meets MIL461E)
- Can be left permanently connected
- Field Convertible to 220VAC or back to 110VAC
- 3 Bank Load Splitter Available
- Dry contact output fail relay
- Audible and visible indicators for output overload, low input voltage, low output voltage and over-temperature
- Over-temperature shutdown
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting with solid state bypass
- 110/220 Vac auto-ranging input option
- Thermostatically controlled fan
- 3 year parts and labour warranty

### Applications

- Commercial Marine
- Military and DHS
- Electric Utilities and Substations
- Ideal as a Trade Show Power Supply for Auto Shows
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Power any 12, 24,32, 48 or 72 Volt Electronic Equipment

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

[www.analyticsystems.com](http://www.analyticsystems.com)

# AC POWER SUPPLIES

# MODEL PWS1505

Electrical (Input)					
Nominal Vac (ip)	110		220		
Actual (Vac)	105-125		210-250		
Input Amps (max)	16.2		8.1		
Input Breaker	25A				
Input Frequency	45-65 Hz				
Noise on Input	< 50mV				
Electrical (Output)					
Output Nominal (op)	12	24	32	48	72
Output Volts (DC)	13.6 (12.0 Available)	27.2 (24.0 or 28.0 Available)	36.3	54.4	81.6
Output Amps	100A	50A	37A	25A	16A
Output Crowbar	17.0 ± 0.5V	34.0 ± 1.0V	45.4 ± 1.3V	68 ± 2.0	102 ± 3.0
Output Ripple & Noise	< 50 mV				
Regulation (Line & Load)	< +/- 0.5%				
Duty Cycle	Continuous 100% for 24 hours per day				
Efficiency	> 85% @ Maximum Output				
EMC	Meets MIL STD 461E				
Environment Specification					
Operating Temp. Range	-20° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional MS Version -40°C to 55°C wide temp. operation avail.) Maximum operating temp. +80°C				
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal coating				
Salt & Fog Protection	Conformed Coating (Optional)				
IP Rating	IP22				
Audible Noise	NONE Ødb @ 3 ft (34.5 dB when fan operating)				
Typical Service Life	> 10 yrs. (87,600 hrs)				
Isolation	Input-Case & Input-Output 1500VDC / Output-Case 500VDC				
Vibration	Meets Loose Cargo Test				
Mechanical Specification					
Length	17.0 in / 43.2 cm				
Width	8.2 in / 20.8 cm				
Height	3.5 in / 8.9 cm (without carrying handle)				
Clearance	1 inch (2.5 cm) all around				
Material	Marine Grade Aluminium				
Finish	Black Anodize / Black Power Epoxy (Optional Colors Available)				
Fastenings	All 18-8 Stainless Steel				
Weight	14.4 lb / 6.6 kg				
Output	Flying Lead – Red & Black, 4ft length, 8 AWG				
Input	Standard NMEA – 110 VAC plug				
Warranty	3 years				
Safety	Designed to meet CSA 22.2.107.1 & UL458				

Note: Specifications are subject to change without notice.



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