

# PWS1503 Series AC Power Supply



(Also available with Optional Carrying Handle)

A product of:



## Benefits

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

## Applications

- Marine & other rugged environments
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Product Burn-in Facilities
- Mobile Offices (TV and Radio Vans)

# AC Power Supplies

## PWS1503 Series Power Supply

### Description

The PWS1503 Series of power supplies provides 12 Volts DC 100 Amps of continuous power from a 230 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 PWS1503 is ultra-quiet and features the latest generation of current mode PWM control.

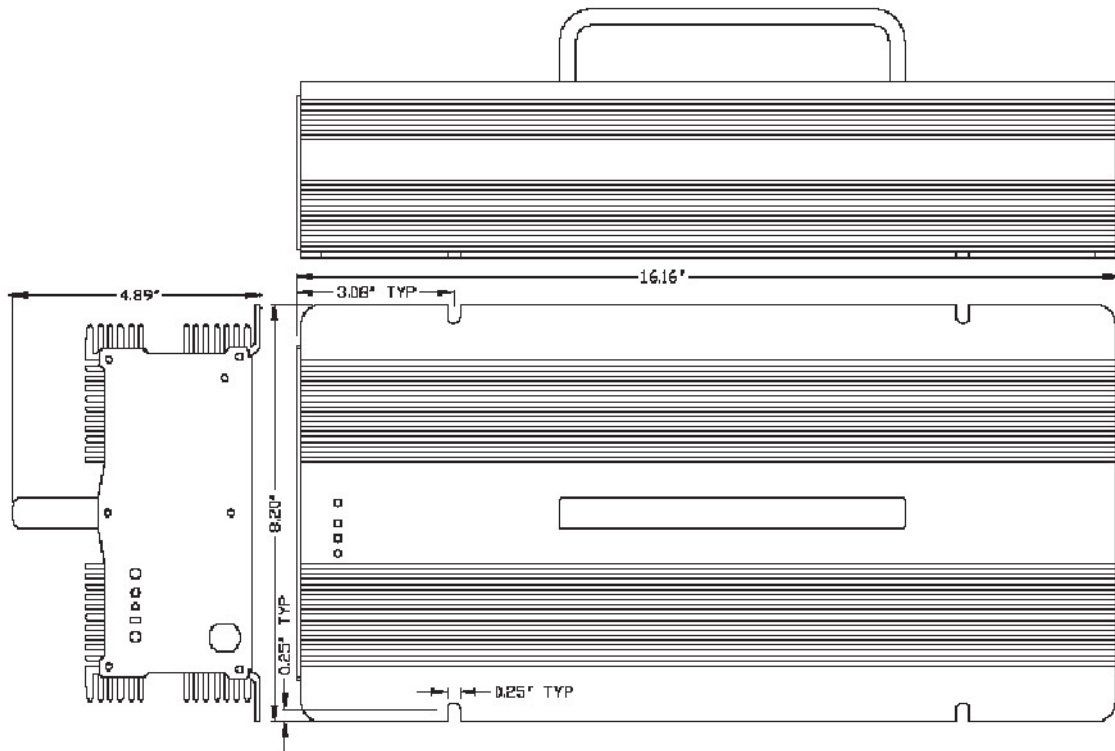
Extra features include audible and visual indicators for low input voltage, over temperature, overload and output on.

The PWS1503 also features an easy to connect two contact output Anderson Plug and a standard NMEA - plug for plug-and-play installation.

### 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
- Dry contact output fail relay
- Visual indicators for output voltage & over-temperature
- Over-temperature shutdown
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting with solid state bypass
- Thermostatically controlled fan

# Specifications ( Specifications Subject to Change Without Notice )



## Electrical (Input)

Nominal VAC (ip)	230
Actual VAC	210 – 250
Input Amps (max)	8.1
Input Fuse (MDA)	10A
Input Frequency	45 - 65 Hz
Noise on Input	< 50 mV

## Environmental Specifications

Operating Temp. Range	-25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	NONE Ødb @ 3 ft (34.5dB when fan operating)
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Input-Case & Input-Output 1500VDC Output-Case 500VDC
Vibration	Meets MIL-PRF-44485

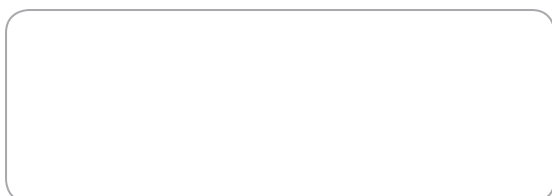
## Electrical (Output)

Output Nominal (op)	12
Output Volts VDC	13.6
Output Amps A	100
Output Crowbar	16.0 ± 0.5V
Output Ripple & Noise	< 50 mV
Regulation (Line & Load)	< +/- 0.5%
Duty Cycle	Continuous 100% for 24 hours per day
EMC	Meets MIL461E
Efficiency	> 85% @ Maximum Output

## Mechanical Specifications

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 Aluminum
Finish	Clear Chromate (optional colors available)
Fastenings	All 18-8 Stainless Steel
Weight	14.4 lb / 6.6 kg
Connections	Four contact output terminals
Warranty	2 years
Safety	Meets UL458 & CSA22.2.107.1

Available from:



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The power conversion company

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