

PWS1505 Series AC Power Supply



Benefits

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

Applications

- Marine & other Rugged Environments
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Charge any 12 or 24 Volt Battery System

AC Power Supplies

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.

The power supply 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.

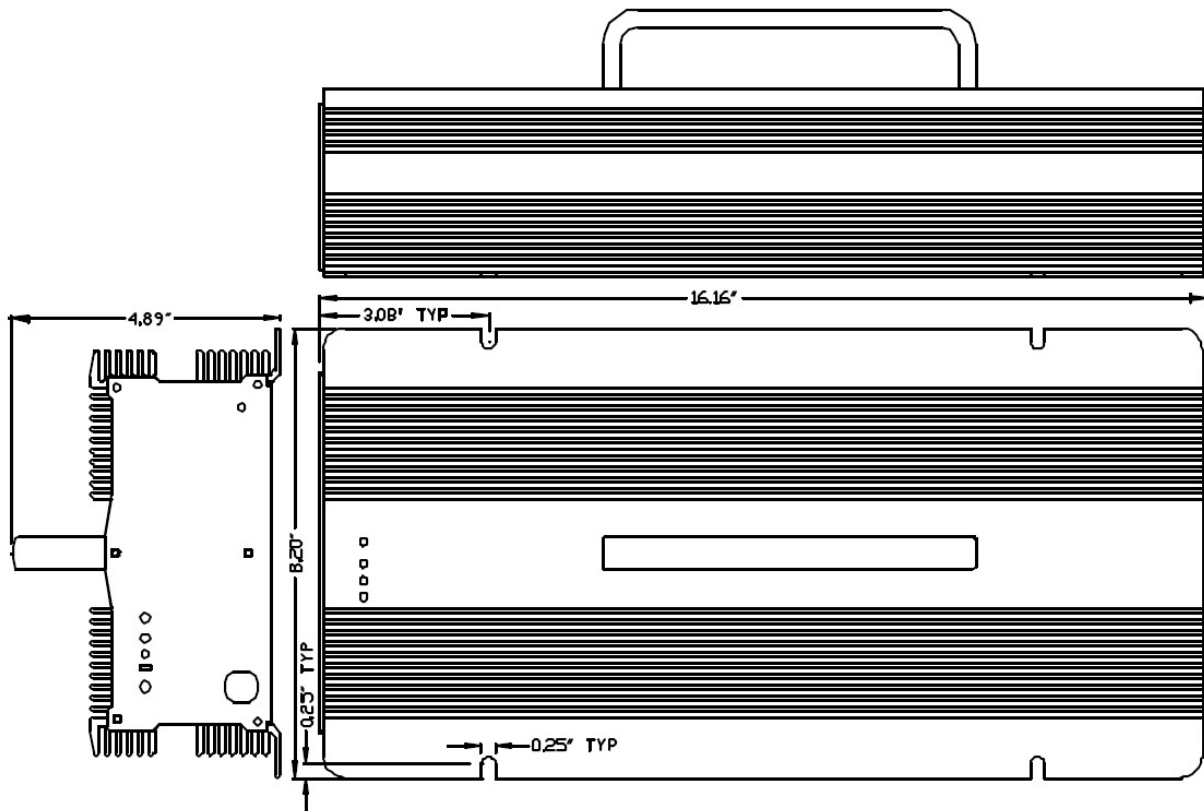
The newly updated single-board PWS1505 is ultra-quiet and features the latest generation of current mode PWM control. Extra features include audible and visual indicators for low input voltage, over temperature, overload and output on.

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.

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

Specifications (Specifications Subject to Change Without Notice)



Electrical (Input)

Nominal Vac (ip)	110	230
Actual (Vac)	105-125	210-250
Input Amps (max)	16.2	8.1
Input Fuse (MDA)	25A	25A
Input Frequency	45-65 Hz	
Noise on Input	< 50 mV	

Environmental Specifications

Operating Temp. Range	-20° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C to +55°C extra 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
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

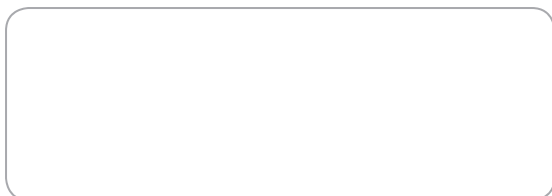
Electrical (Output)

Output Nominal (op)	12	24	32	48	72
Output Volts (DC)	13.6 <small>(12.0 Available)</small>	27.2 <small>(24.0 or 28.0 Available)</small>	36.3	54.4	81.6
Output Amps	100	50	37	25	16
Output Crowbar	17.0±0.5V	34.0±1.0V	45.4±1.3V	68.0±2.0V	102±3.0V
Output Ripple & Noise	< 50 mV				
Regulation (Line & Load)	< +/- 0.5%				
Duty Cycle	Continuous 100% for 24 hours per day				
Efficiency	81-82% @ Maximum Output				
EMC	Meets MIL STD 461E				

Mechanical Specifications

Length	43.2 cm
Width	20.8 cm
Height	8.9 cm (without carrying handle)
Clearance	2.5 cm all around
Material	Marine Grade Aluminium
Finish	Black
Fastenings	All 18-8 Stainless Steel
Weight	6.6 kg
Connections	Flying lead
Warranty	3 years
Safety	Meet UL458 & CSA 22.2.107.1

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Wägitalstrasse 24
CH-8854 Siebnen
Switzerland

Ph +41-(0)43-818 53 85
Fax +41-(0)43-818 53 87
www.ripenergy.ch