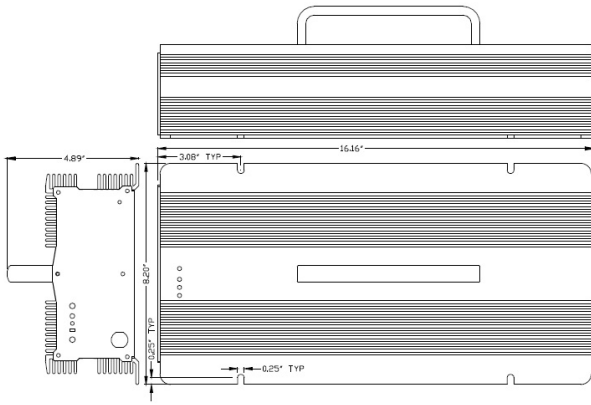


ANALYTIC SYSTEMS

Power Conversion Solutions

AC POWER SUPPLY MODEL PWS1505MS SERIES



Description

The PWS1505MS Series Power Supply provides up to 1350 watts at 24, Volt continuous power from a 110 Volt AC source, (220VAC and auto-ranging input available).

This all new single board design incorporates state of the art switchmode technology for unmatched efficiency and ultra-quiet operation. Multiple stages of filtering reduce radiated or conducted noise to very low levels to meet MIL461E. Extra features include visual indicators for output ON and output overload (single dual brightness LED). Safety features include over-temperature shutdown, current limiting, short circuit protection with automatic recovery, input undervoltage shutdown and output overvoltage crowbar.

Optional features include a Full Battery Charger version, a 3-Bank Load Splitter and/or a temperature compensated charging sensor. We are confident that you will get many years of reliable service from this AC Power Supply.

Benefits

- Quiet Operation
- Reliable
- Economical
- Lightweight

Design Features

- Ideal as a COTS Power Supply for Military Applications
- Military-Grade extrusion ensures a high tolerance for shock and vibration
- 3 Bank Load Splitter available
- Ultra-quiet low EMI operation meets MIL461F
- Meets various levels of EMC radiated and conducted emissions MIL-STD 461F
- Can be left permanently connected
- Field Convertible to 220 Vac or back to 110 Vac
- Thermostatically controlled fan
- Audible and Visual indicators for output overload, low input voltage, low output voltage and over-temperature
- Short circuit protection
- Output over-voltage crowbar
- Inrush current Limiting with solid state bypass
- 110/220 Vac auto-ranging input (optional)
- Dry contact output fail relay
- Designed to meet MIL-STD 810F, Method 514-3, Cat-I Proc I for vibration
- Built to the ISO9100 :2008 / AS9100 Certified Quality Systems
- 2 year parts and labour warranty

Military Options

Our standard "MS" military option provides ruggedization features required by many military users including: our extra wide temperature option -40° to +55°C

The printed circuit boards are also protected against condensation and are enhanced with vibration protection that meets or exceeds MIL-STD810F, Method 514-3 and Cat-1 Proc 1.

C.O.T.S. products are designed to meet various levels of EMC radiated and conducted emissions MIL-STD 461E.

All C.O.T.S. products are manufactured in accordance with IPC-A 610.

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

AC POWER SUPPLY

MODEL PWS1505MS SERIES

| Electrical (Input) | | |
|-----------------------------|--|-------------|
| Nominal (ip) | 110 | 220 |
| Actual (Vac) | 90-130 Vac | 210-250 Vac |
| Input Amps (max) | 16.2 | 8.1 |
| Input Breaker | 25A | 15A |
| Input Frequency | 45-400 Hz | |
| Noise on Input | < 50 mV | |
| Electrical (Output) | | |
| Output Nominal (op) | 24 | |
| Output Volts (DC) | 27.2 (12.0 or 72.0VDC Available) | |
| Output Amps | 50A (Sealed Unit 25A) | |
| Output Crowbar | 32.0 ± 1.0V | |
| Output Ripple & Noise | <50 mV | |
| Regulation (Line & Load) | < +/- 0.5% | |
| Duty Cycle | Continuous 100% for 24 hours per day | |
| EMC | Meets MIL STD 461E | |
| Efficiency | >85% @ Maximum Output | |
| Environmental Specification | | |
| Operating Temp. Range | -40° to +55°C @ maximum output | |
| Humidity | 0 – 95% Relative Humidity (non-condensing) with optional conformal coating | |
| Audible Noise | NONE Ø db @ 3ft (34.5 dB when fan operating) | |
| Typical Service Life | >10 yrs. (87,6000 hrs) | |
| Isolation | Input-Output, Input-Case & Output-Case 1500 Vdc Output-Case 500Vdc | |
| 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) | |
| Material | Marine Grade Aluminum | |
| Finish | Black Anodize | |
| Fastenings | All 18-8 Stainless Steel | |
| Weight | 14.4 lb / 6.5 kg | |
| Connections Output | Flying Lead – Red & Black 4ft length, 8 AWG | |
| Connections Input | Military Connectors Optional | |
| Safety | Designed to meet CSA 22.2.107.1 & UL458 | |
| Warranty | 2 years | |

Note: Specifications are subject to change without notice.



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