

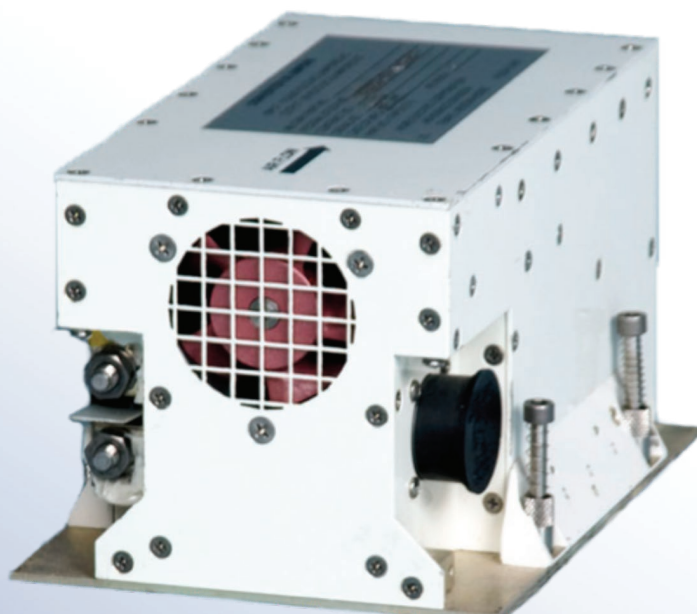


50 AMP AC/DC CONVERTER FA-18 HORNET E/F/G AND E-2D HAWKEYE

PART NO. 174PS101

KEY ADVANTAGES

- Ultra Low Weight
- Compact Design
- Unparalleled Reliability
- High Vibration Endurance
- Superior High Conversion Efficiency



Acme Aerospace, Inc. is pleased to offer a highly reliable, rugged converter for high demand commercial applications. Used in the FA-18 Hornet E/F/G Models and the E-2D Hawkeye, the 50 Amp AC/DC Converter performs under the most stringent environmental conditions.

The 174PS101 is a rugged, fan-cooled AC to DC power converter/battery charger that provides a nominal 50-amp output at a regulated 28VDC from a 3-phase, 115VLN, 400 Hz input source. The power converter/battery charger is designed to provide 120% of nominal output current (60 amps) for 2 minutes and 150% of nominal output current (75 amps) for 5 seconds during overload conditions. The 174PS101 has a high conversion efficiency of 85% minimum and can operate between -55°C to 71°C.

The power converter/battery charger weighs less than 6 lbs. and occupies no more than 152 cubic inches of space which makes it ideal for applications where limited space and weight are critical for aircraft operation.

The 50 Amp Converter/Battery Charger converts 3-phase AC power to 28 VDC with a nominal 50-amp output. The converter utilizes a single input connector MS3012E-168-8P and two output terminal studs 250-28 UNF-2A -- it will withstand 30 G's of vibration for up to 2 hours to satisfy the most demanding conditions.

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ELECTRICAL CHARACTERISTICS

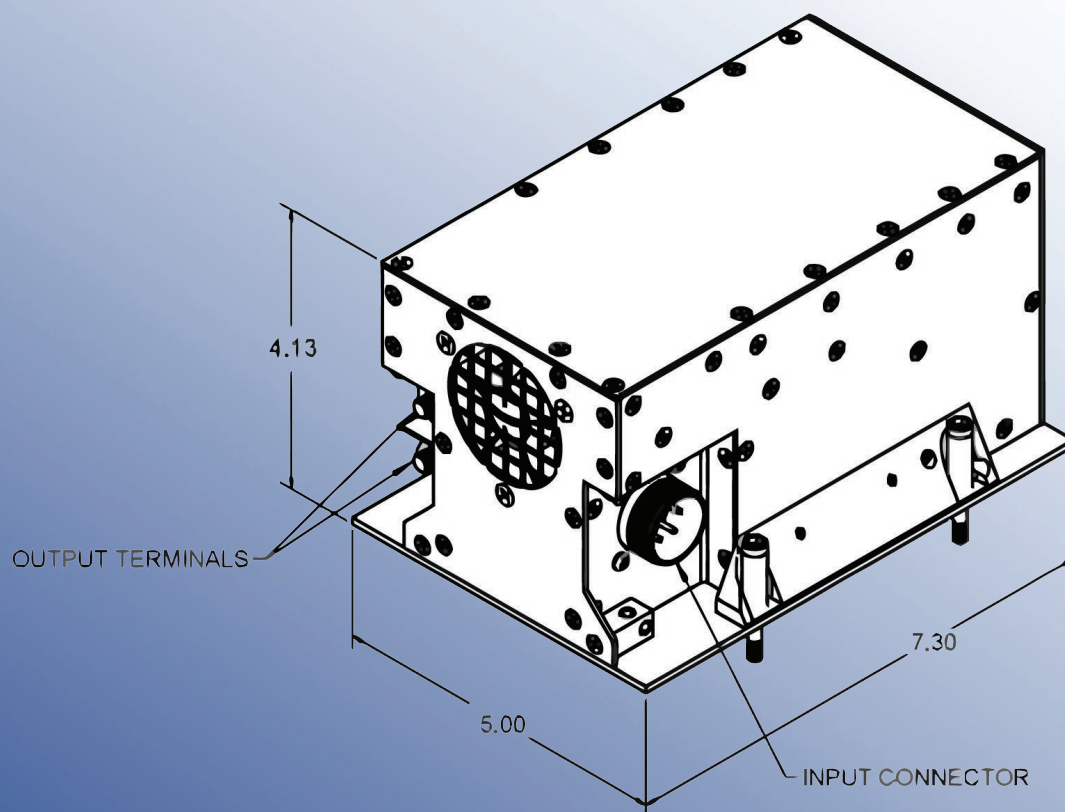
Input Power Requirements	115/200 VAC, 400Hz, 3-Phase, 0.90 Power Factor Lagging, 50% to 100% Loads
Output Voltage	28.0 \pm VDC Regulated
Output Current	50 Amps
Operating Temperature Range	-55°C to 71°C
Cooling	Fan Cooled
Efficiency	85% Minimum

PHYSICAL CHARACTERISTICS

Width	5.0in (127mm)
Height	4.13in (104.9mm)
Length	7.3in (185.42mm)
Weight	6.0lbs max (2.72kg)
Mounting	4.56 x 3.50in (115.82 x 88.9mm)
Connector	MS3102E-168-8P
Output Terminal Studs	250-28 UNF-2A (2)

ENVIRONMENTAL QUALIFICATIONS

MIL-STD-461E
MIL-STD-462
MIL-T-810E



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