ACME AEROSPACE

50 AMP AC/DC CONVERTER

YOUR LEADER IN INTEGRATED BATTERY AND POWER SYSTEMS

FA-18 Hornet E/F/G, F-15, and E-2D Hawkeye

Key Advantages
Ultra low weight
Compact design
Unparalleled reliability
High vibration endurance
Superior high conversion efficiency



PART NO. 174PS101

Acme Aerospace 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 28 VDC from a 3-phase, 115 VLN, 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 lb 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 Gs of vibration for up to 2 hours to satisfy the most demanding conditions.

ACME AEROSPACE

Who We Are and What We Do

Acme Aerospace engineers and manufactures flight-critical power solutions that deliver ultra-reliable start-up, back-up, and emergency power. We're advancing lithium-ion technologies and modular power supplies for no-fail missions. Every system is designed to meet rigorous standards, including DO-160 for general aviation and MIL-STD for defense.

Our vertically integrated manufacturing allows us to deliver the speed, agility, and innovation of a specialized engineering team with the stability of a proven aerospace enterprise.

Not export controlled technical data — marketing material only. Specifications subject to change without notice. For reference only, not a warranty or offer.

Acme Aerospace
528 W 21st Street
Tempe, AZ 85282
sales@acme-aero.com

Version 2 | 2026

© 2026 Acme Aerospace Inc.

Electrical Characteristics

Input Power Requirements	115/200 VAC, 400Hz, 3-phase, 0.90 power factor lagging, 50% to 100% loads
Output Voltage	28.0 ± VDC Regulated
Output Current	50 Amps
Operating Temperature Range	-55°C to 71°C
Cooling	Fan cooled
Efficiency	85% minimum

Physical Characteristics

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

Environmental Qualifications

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

