

PUMA-2466

- MIL-STD-704F / MIL-STD 1275E 90A ACDC power supply & battery charger.
- 84 to 264V AC 50 to 400Hz Input
- Wide -40...75C operating temperature range
- 28VDC output @ 90A for equipment connection
- 28V DC output @ 90A terminals for managed battery charging
- High shock and vibration for harsh environments

Description

The PUMA-2466 Power Supply/Charger is a dual-purpose instrument.

It is based on a Modular Design, serving both as stabilized 28VDC with 90A power supply and/or an automatic battery charger. It is designed to operate in extreme environmental conditions.

The unit is manufactured in the UK, and is assembled in our facility certified to AS-9100, J-STD-001, & IPC-A-610 Class 3.

General

Free standing, or mounted at the base

Cooling through natural convection

CARC and IRR finishes

Features

Wide AC input range,

MIL-STD-1275A-D, MIL-STD-704A-F

MIL-STD-461E EMC compliance, DEF STAN00-35,
& MIL STD 810D

Environmental compliance,

2.5kW Output power over the full input range,

Efficiency up to 90% (typical),

3 Year Warranty,

CE Marked LVD and EMC,

Over Temperature Shut Down



Environmental

OperatingTemp: -40°C to +75°C,

StorageTemp: -55°C to +105°C, Humidity:

5-95% RH, non-condensing,

Altitude: 51,000ft (D0160G),

Safety Approvals: EN60950-1,

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Input

Input Voltage	85...264VAC
Input Power Factor	Electronic PFC >0.9
Input Frequency range	47...440Hz
Input Protection	Mil-Std 704E
Input to Output Isolation	3000 VAC RMS Test Voltage
Input to Case Isolation	1500 VAC RMS Test Voltage
Output to Case Isolation	500V RMS
Input Connector	D38999/24ZN-21-48PN
Earth Connection	

General

Overall Efficiency	>80% Typical
PFC Switching Frequency	100kHz Typical
DCDC Switching Frequency	400kHz Typical
MTBF	150,000 Hours

Output

Output Power	2,520W
Output Voltage	28V
Output Regulation	+/- 2%
Ripple & Noise	<3% p-p max, <1% RMS max
Output Protection	Circuit Breaker
Overvoltage Protection	
Overcurrent Protection	110 to 115%
Short Circuit Protection	Equivalent in-line Diode
Output Connector	D38999/26ZN25PN
Output Battery Connection	Insulated Screw Terminals

Environmental

Operating Temperature	-40C to +75C
Vibration	Mil-Std 810E Method 514.3 Category 1 (Designed to Meet) Mil-Std 810E Method 514.4 Category 3 (Designed to Meet)
Shock	Mil-Std 810E Method 516.3 Procedure I (Designed to Meet)
EMI	Mil-Std 461E Part 1 & 2 CE101 CE102 CS101 CS106 CS114 CS115 CS116 RE101 RE102 RS101 RS103

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Mechanical

Dimensions	405mm x 200mm x 200mm (L x W x H)
Weight	<14Kg
Fixing	Standalone Screw Connections in Base
Cooling	Natural Convection

