

HEDGEHOG UPS DUAL INPUT 700W UNINTERRUPTIBLE POWER SUPPLY

- MIL-STD-704F / MIL-STD 1275E 700W
- 80V to 264V AC 50 to 400Hz Input
- 10V to 38V DC Input DEF-STAN 61-5
- DEF-STAN 59-411 Land Class B
- Wide -46C to 75C temperature range
- 28VDC output @ 20A
- 30 minutes autonomy
- shock and vibration for harsh environments



Description

The on-systems' HEDGEHOG is a configurable, modular, EMI silent power supply. With dual 80 to 264V AC and wide range 10 to 38V DC inputs, the EAGLE will provide a 28V output from all sources.

EMI filtering to DEF-STAN 59-411 Land Class B and MIL-STD 461F, with TEMPEST¹ ensures the unit is suitable for all situations.

The modular integrated, hot swappable power cells give from 40 minutes to hours of autonomy in temperatures from -46C to +75C, utilising the latest lead crystal technology. Lithium power cells may be selected to offer greater autonomy or smaller size.

HEDGEHOG is designed to harvest power from any available source; to charge the power cells or extend the autonomy.

The on-board logic extracts the maximum power with most efficient use of the power cells, to extend maximum autonomy.

IP56 rated, and environmentally tested to MIL-STD 810G, the EAGLE is perfect for all applications, and is man portable.

HEDGEHOG UPS

Input

Input Voltage	80...264VAC 10...38VDC
Input Protection	Mil-Std 704E DEF-STAN 61-5 part 6 issue 6 MIL-STD 1275E
Input to Output Isolation	3000 VAC RMSTest Voltage
Input to Case Isolation	1500 VAC RMSTest Voltage
Output to Case Isolation	500V RMS
Input Connector	D38999/24ZN-21-48PN
Earth Connection	M6 Earth Stud

General

Overall Efficiency	>85% Typical
MTBF	150,000 Hours
Battery	PUMA-2398 Hot swap Lead Crystal

Output

Output Power	700W
Output Voltage	28V
Output Regulation	+/- 2%
Output Protection	Circuit Breaker
Overvoltage Protection	
Overcurrent Protection	110 to 115%
Output Connector	D38999/26ZN25PN

Environmental

Operating Temperature	-46C to +75C
Environment	CARC IRR IP56 Lightning Protection Sand Dust Snow Ice
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 DEF-STAN 9-411 Land Class A TEMPEST*

Indicators

Input	AC Available DC Available
Battery	Status Powered by Battery

Mechanical

Dimensions	370mm x 222mm x 210mm (L x H x W)
Weight	<20Kg
Cooling	Natural Convection