



The avanta UPS is a configurable, modular, EMI silent power supply. With dual 90 to 264V AC and wide range 18 to 38V DC inputs, the UPS will provide a 28V output from all sources.

EMI filtering to DEF-STAN 59-411 Land Class B and MIL-STD 461G ensures the unit is suitable for all situations. The modular integrated, hot swappable power cells give from 20 minutes to hours of autonomy in temperatures from -40C to +70C, utilising the latest lead crystal technology. Lithium power cells may be selected to offer greater autonomy or smaller size.

AVMIL-UC-700-28 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.

IP65 rated, and environmentally tested to MIL-STD 810G, this unit is perfect for all applications, and is man-portable.

Benefit	Feature
No need for additional filters	EMC to MIL-STD 461G & DEF-STAN 59-411 Ground Army Land Class B Reverse Polarity Protection
Simple to cool	Convection cooled
Use it anywhere	Small form factor Aerospace compliant Land compliant Marine compliant
Easy to integrate	Stocked connectors
Available off the shelf	Distributor stocked

Input

Input Voltage	90...264VAC 18...38VDC
Input Protection	Mil-Std 704E DEF-STAN 61-5 Part 6 Issue 6 MIL-STD 1275E
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	AC Input: D38999/24ZN-21-48PN DC Input: D38999/24ZN-75AN
Earth Connection	M6 Earth Stud

General

Overall Efficiency	>85% Typical
MTBF	150,000 Hours
Battery	PUMA-2646 Hot swap Lead Crystal

Output

Output Power	600W
Output Voltage	28V
Output Regulation	+/- 2% (when powered from mains)
Output Protection	Circuit Breaker
Overvoltage Protection	
Overcurrent Protection	110 to 115%
Output Connector	D38999/24ZN15-19SN

Ethernet

M&C	Remote on/off & monitoring
-----	----------------------------

Environmental

Operating Temperature	-40C to +70C
Environment	CARC IRR IP65 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 461G Part 1 & 2 CE101 CE102 CS101 CS106 CS114 CS115 CS116 RE101 RE102 RS101 RS103 DEF-STAN 59-411 Land Class B DCE01 DCE02 DCS01 DCS02 DCS10 DRE01 DRE02 DRS01 DRS03

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



avanta

www.avanta-power.com