



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.

IP56 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
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## Environmental

Operating Temperature	-40C to +70C
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 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

