

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
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