

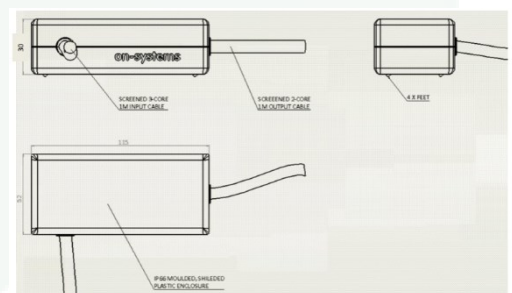
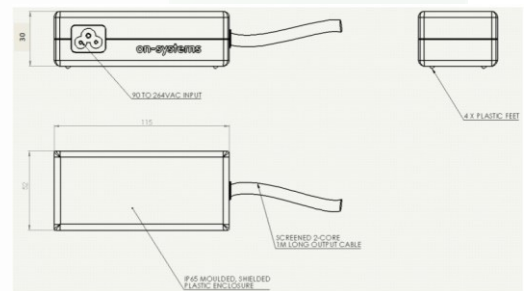


The avanta convection cooled ACDC is a mil-spec, low profile, fully compliant, isolated, convection cooled ACDC power supply with a fully regulated output of up to 100W.

Designed for harsh military applications, the **AVMIL-AC-100-12** is available with a wide 85V to 264VAC input for global mains powered systems, for both platform and terminal connected equipment.

Integrated EMC filtering to MIL-STD 461, DEF-STAN 59-411 Land Class A and TEMPEST allows for direct connection to the supply voltage.

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



TECHNICAL DETAILS

Input Specifications

Input Voltage	85V to 264V AC
Max Input Current	1.3A
Input Frequency	47 to 60Hz

Output Specifications

Output Voltage	12V
Load Regulation	+/- 2%
Line regulation	+/- 2%
Output Ripple	<150mV
Maximum Output Current	8.3A

Protection

Over Current Protection	105% Typical
Over Voltage Protection	135% Typical
Short Circuit Protection	Continuous, Auto Recovery, Hiccup Mode
Over Temperature Protection	70C

Efficiency

100% Load	91% at Nominal Input Voltage
Turn On Time	<60ms

Isolation

Input to Output	1,500VDC
Input to Case	1,500VDC
Output to Case	1,500VDC
Isolation Resistance Input to Output	100MOhm

Switching Frequency

180kHz Typical	
MTBF	>150 KHrs
EMC	

Mil Standards

Mil-Std 461G	CE101, CE102, CS101, CS103, RE101, RE02
MIL-Std 810F	Shock/Vibration
DEF-Standards	
DEF-STAN 59-411	DCE01, DCE02, DCS01, DCS02, DRE01, DRE02, DRS01
DEF-STAN 00-35	

CE / UKCA



avanta

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Environmental

convection cooled

operating humidity DO-160E section 6 category B operating altitude 51,000 ft

operating below sea level 1,500 ft

shock & vibration DO-160E Shock +6g 11ms any direction

BS EN60068-2-27 15g shocks 11ms ½ sine

vibration DO-160E section 8 procedure 8.7.2 test level C1

WEEE directive 2002-96-EC RoHS directive 2002-95-EC

REACH regulations EU-1907-2006 HAZMAT compliant

EMC and safety

safety approvals EN60950-1:2006

emissions MIL-STD-461E/F, DEF STAN 59-411 Land Class A

ESD immunity EN61000-4-2, Level 3

radiated immunity EN61000-4-3, 10V/m, level 3 performance criteria a surge EN61000-4-5, installation class 3, perf criteria a

conducted immunity EN61000-4-6, 10V RMS, perf criteria a



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