

AC300 series



300W AC/DC Adapter

The AC300 is a new AC/DC adapter from roda computer, design based on a LLC topology for power up to 300 watt . The LLC resonant topology allows for zero voltage switching of the main switches thereby dramatically lowering switching losses. Moreover there is a synchronous rectification on control on the secondary side that leads to a boosted efficiency.

Demanding environments

AC300 is design to fulfill MIL-STD-461G regarding EMC performance & the hardened and powder-coated aluminum chassis makes it dust, vibration and water resistant and meet the environmental requirements of MIL-STD-810G.

Features

- 110 V_{AC} 60/400 Hz
- 230 V_{AC} 50 Hz
- Shielded Aluminium-Housing
- Transient protection
- High efficiency
- Active PFC
- Overvoltage and current protection (output)
- Overtemperature protection

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Technical Specification

Input	
Input voltage	110 VAC (60 Hz) 110 VAC (400 Hz) 230 VAC (50 Hz)
Input current (typical)	3.0 A (115 V AC) 1.5 A (230 V AC)
Fuse	Internal
Isolation	input-output: 3000 V AC input-chassis: 1500 V AC
Efficiency	50/60 Hz typical > 90 % 400 Hz typical > 85 %
Cable (AC)	Power cord (Schuko/NEMA) Cable length 147 ± 5 cm
Output	
Output voltage	See variant configuration section
Output power	300 w
Residual ripple	< 100mv
Cable connector	See variant configuration section
Cable length	115 cm
Resistance	Short circuit, overvoltage and overload protection

Technical Specification (cont.)

Size & Weight	
Dimensions (W x D x H)	237 x 118 x 49 mm (9.3 x 4.6 x 1.9 inch)
Weight	2.4 kg (5.3 lbs.)
Temperature Range	
Operating	-30°C to +60°C (-22°F to +140°F)
Storage	-40°C to +70°C (-40°F to +158°F)
Reliability	
MTBF (Ground Benign)	TBD
Other	
Housing	Milled Aluminium
Colour	RAL9005 (Black)
Standards	MIL-STD-461G, MIL-STD-810H & IP65
Warranty	
Warranty	5 years
Customization	
Need anything not included in the data sheet? MilDef products are designed to enable customization to your specific program requirements. Please contact your MilDef sales team member to find the best solution for your requirements.	

Variants

Model name	DC connector	Input	Output	Current	Power
AC-300-12	Amphenol	110 VAC 60/400 Hz	12 VDC ±5%	25.00 A	300 W
AC-300-19	62IN/GB series	230 VAC 50 Hz	19 VDC ±5%	15.79 A	
AC-300-24			24 VDC ±5%	12.50 A	