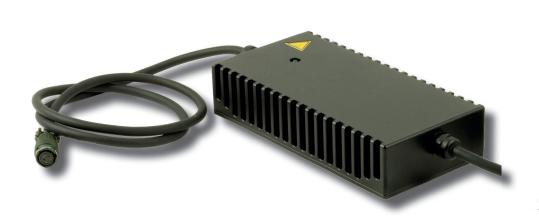
Power Supply AC300

full rugged power supply















The AC/DC adapter AC300 is a new roda 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 control on the secondary side that leads to a boosted efficiency. Efficiencies of > 98% can be achieved with LLC resonant converter.

Besides above, the special feature of this MIL power supply is best EMC properties according to MIL-STD-461G as well as a frequency range of 50 Hz, 60 Hz and 400 Hz. The hardened and powder-coated aluminum chassis makes it dust, vibration and water resistant and meet the environmental requirements of MIL-STD-810G. Connectors on AC and DC side are freely selectable.

- 110 V_{AC} 60/400 Hz
- 230 V_{AC} 50 Hz
- compact and robust set-up
- shielded Aluminium-Housing
- transient protection
- LED-indicator
- ingress protection IP65
- high efficiency

- active PFC
- short circuit proof (output)
- overvoltage and current proof (output)
- overtemperature protection
- temperature: -20°C to +60°C
- environmental conditions designed to meet MIL-STD-810G/461G
- connector and cable type customizable

Type	Input	Output	Current	Power
AC-300-12	110 V _{AC} 60/400 Hz 230 V _{AC} 50 Hz	12 V _{DC} ±5%	25.00 A	300 W
AC-300-19		19 V _{DC} ±5%	15.79 A	
AC-300-24		24 V _{pc} ±5%	12.50 A	



Input Variables

Input voltage 110 V_{AC} (60 Hz), 110 V_{AC} (400 Hz),

Frequency $230 V_{AC}$ (50 Hz)

Input current typical 3.0 A (115 V_{AC})

typical 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 %

Connections (cables) power cord (Schuko/NEMA)

Cable length 147 \pm 5 cm

General

Safety EN 62368-1

CE-Conformity manufacturer declaration

Environmental design to meet MIL-STD-810G

MIL-STD-461G

Coolingconvection coolingLED indicatorsoutput: 1 LED green

Output Variables

Output voltage single output (see previous page)

others upon request

Tolerance ±5% typ.

Output power 300 Watt (max.)

-20°C to +60°C

Residual ripple < 100 mV

Connections (cables) connector: customer request

Cable length ca. 115 cm

Resistance short circuit, overvoltage and

overload proof

Mechanics

Housing milled aluminum
Colour RAL9005 black

other colours upon request

Ingress Protection IP65

Dimensions approx. 237 x 118 x 49 mm

(w/o cable fitting)

Weight approx. < 2.4 kg