

Source Control Document.

Model: PFC 200-M/28FT-RCX-R5418

COSD: 3B10-2

**Summary description: 200W Single Output DC/DC Converter
115Vac/400Hz to 28Vdc/7.1A**

Customer Name: ASELSAN, TUBITAK / Turkey, Kalinka

Customer Part Number: AR16-P2673241-174



Product description:

This rugged, industrial quality AC/DC converter uses field-proven technology to generate the required output power. It is a mature product with a track record in numerous applications. Cooling is via base plate to a heat sinking surface and by natural convection. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. It is manufactured at our plant under strict quality control.

Special Features: 400Hz input, ruggedizing, conformal coating, low temp options, CE marked, CE DoC, C of C, test data required

SPECIFICATIONS

Input Voltage

95...264Vac, 47...400Hz
Input Current: 2.6Arms max.

Power Factor

Minimum 0.9 at full load for the entire input range with 400Hz input
Meets EN61000-3-2

Input Protection

Inrush current limiting
Varistors
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

Isolation

2250Vdc input to chassis
4300Vdc input to output 8mm spacing
1500Vdc output to chassis

Standards

Designed to meet EN60950-1 and related standards
Meets requirements for CE Marking

EMI

EN55022 Class A with margins conducted and radiated.

Switching Frequency

80kHz Boost section
55 kHz \pm 3kHz for the DC/DC (half-bridge) section

Output Voltage/Current

28V \pm 0.2V/7.1A, 200W continuous
Output is floating, either terminal can be grounded

Terminal Block pin-out

NOT USED			28VDC OUTPUT			AC INPUT		
1	2	3	-	+	NOT USED	GND	PH	N
1	2	3	4	5	6	7	8	9

Redundancy Diode

Not installed

Line/Load Regulation

\pm 1% combined from no load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple / Noise

Better than 60mVrms or 300mVpp (20MHz BW)

Output Overload Protection

Rectangular current limiting with hiccup-type short-circuit protection
Current Limit set to: 8.2A \pm 0.2A

Output Overvoltage Protection

Double regulator loop and OVP setting: 32V \pm 2V

Efficiency

80% minimum at full load

Operating Temperature Range

-20°C to +50°C temperature

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction via base plate and natural air convection

Environmental Protection

Ruggedizing
Conformal coating

Humidity

95% non-condensing

MTBF

Min. 150,000 hours @ 45°C

Indicators

Green "Output ON" LED visible through the cooling slots.

Control Input

None

Alarm Output

Not installed

Package / Dimensions

F2: 113 x 57 x 254mm
(4.4" x 2.3" x 10")
Mounting holes are clear

Weight

1.2kg (2.6 lbs)

Connections

Barrier type terminal block 9-pole with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

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