

Model: MIM 105-125/24FTND (Standard ND Stock Version)
OSD: 1532 8416 **COSD:** G365
Summary description: 50W, Industrial Quality DC/DC Converter
 125V to 24V
Customer Name: ABS FG Stock
Customer Part Number: Same as above



Product description:

This rugged, industrial quality DC/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 baseplate to a heatsinking surface and by natural convection. Low component count, large design headrooms, 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: These stock units are individually packed and ready for immediate delivery

SPECIFICATIONS

Input Voltage

125Vdc nominal
 105-145Vdc operating range
 Input current: 0.6A max.

Input Protection

Inrush current limiting
 Varistor
 Reverse polarity protection by series diode
 Internal safety fuse
 Lower voltage than the specified minimum input will not damage the unit.

Isolation

1500Vdc input to chassis
 2250Vdc input to output
 500Vdc output to chassis

Standards

Designed to meet EN60950 and corresponding UL and CSA standards

EMI

EN55022 Class B

Switching Frequency

120kHz +/- 5kHz

Output Voltage/Current

24Vdc +/- 0.1V/4A
 Output is floating, either terminal can be grounded

Redundancy Diode

None

Line/Load Regulation

+/- 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: 2.5A +/- 0.4A

Output Overvoltage Protection

Transzorb across the output

Efficiency

80% minimum at full load

Operating Temperature Range

0°C to +50°C for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Natural convection and conduction via base plate

Environmental Protection

Basic ruggedizing

Shock/Vibration

Meets IEC 61373 Cat 1 A&B

Humidity

5-95% non-condensing

MTBF

Min. 150,000 hours @ 45°C

Indicators

None

Control Input

None

Alarm Output

None

Package / Dimensions (WxHxL)

FM package: 66 x 38 x 163mm
 (2.6" x 1.5" x 6.4")

Mounting holes are clear

Weight

350g (0.8 lbs)

Connections

5-pole terminal block (3/8" spacing)

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

DC OUTPUT		DC INPUT		
-	+	GND	+	-
1	2	3	4	5

Drawn by TS/ar	Date April 12, 2011
Checked by TS	Drawing No./ Rev. SCD 1532 8416 NDA2
Approved by TS	

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