

Source Control Document.

Model: MIW 100-125FTND (Standard ND Stock Version)
OSD No.: 1631 1090 SPND
Summary description: 100W Single Output, AC/DC Power Supply
 125V/0.8A

Product description:

This unit is a high reliability rugged power converter built on 3" x 5" PCB size and installed in standard F0 package with clear mounting holes. The input accepts any AC voltage from 95V to 264V as well as DC voltage from 110V to 360V. It has combined cooling; conduction via baseplate and natural air convection. Low component count and the use of components with established reliability results in a high MTBF. The unit 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

115-240Vac (-15% and +10%)
 95Vac to 264 Vac
 47 – 63Hz
 110 ... 360Vdc
 Input Current 2.9A max

Input Protection

Inrush current limiting
 Varistor
 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
 500VDC output to chassis

Standards

Designed to meet EN 60950 and corresponding UL & CSA standards

EMI

EN55022 Class A as minimum

Hold Up Time

Min. 5ms at nominal input for 5% drop of the output voltage

Switching Frequency

47KHz +/- 2KHz

Output Voltages/Currents

125Vdc/0.8A
 Adjustable 108...130V
 The 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 30mVrms or 120mVpp (@ 20MHz BW)

Output Overload Protection

Rectangular current limiting with hiccup type short-circuit protection (hiccup mode)
 Current Limit: 1A +/- 0.15A

Output Overvoltage Protection

Double regulator loop
 OVP Setting: 140V +/- 5V

Efficiency

min. 80% at full load

Operating Temperature Range

0° + 50°C for full specification with proper installation

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Natural convection and conduction via customer chassis

MTBF

180,000 hours @ 45°C

Indicators

None

Control Input

None

Alarm Outputs

None

Environmental Protection

Basic ruggedizing

Package/ Dimensions (WxHxL)

F0: 86mm x 154mm x 48mm
 (3.4" x 1.9" x 6.1")
 Mounting holes are clear

Weight

0.45 kg (1 lb)

Connections

6-pole barrier-type terminal block, with 3/8" spacing

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

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