

## Source Control Document.

**Model:** MIW 100-24FTND (Standard ND Stock Version)  
**OSD No.:** 1570 0694 SPND  
**Summary description:** 100W Single Output, AC/DC Power Supply  
 24V/4A

### 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 Feature:** 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

24Vdc/4A  
 Adjustable 23.8...28.2V  
 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: 4.5A +/- 0.3A

#### Output Overvoltage Protection

Double regulator loop  
 OVP Setting: 30V +/- 1.5V

#### 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

#### Environmental Protection

Basic ruggedizing

#### MTBF

180,000 hours @ 45°C

#### Indicators

None

#### Control Input

None

#### Alarm Outputs

None

#### 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

Drawn by SS	Date Nov. 13, 2008
Checked by T.S.	Drawing No./ Rev. SCD 1570 0694NDA
Approved by T.S.	

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