

## Source Control Document.

**Model:** MIW150-125FTND (Standard ND Stock Version)  
**OSD No.:** 1828 0694 SPND **UL Part No:** 1828 0694 SP3  
**Summary description:** 150W Single Output, AC/DC Power Supply,  
125V/0.8A



### Product description:

The unit is a high-reliability rugged power converter built on 100 x 160mm PCB and installed in standard F1 package with clear mounting holes. The input accepts any AC voltage from 95V to 264V, as well as DC voltages for 110V to 360V. The cooling is combined; natural air convection and conduction via base plate. 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 controls.

**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 2.9Arms 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  
1000VDC output to chassis

### Standards

Designed to meet EN60950 and corresponding UL and CSA standards  
100W version is formally approved to UL60950-1

### EMI

EN55022 Class B

### Switching Frequency

47KHz +/- 2KHz

### Hold Up Time

Min. 5ms at 115VAC input for 5% drop of the output voltage

### Output Voltage/Current

125V / 0.8A  
Adjustable: 110-130V  
Output is floating, either terminal can be grounded

### Redundancy diode

Installed internally

### Line/Load Regulation

+/- 1% combined from zero 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 80mVrms or 350mVpp (20MHz BW)

### Output Overload Protection

Rectangular current limiting with hiccup type short-circuit protection  
Current Limit: 1.4A +/- 0.15A

### Output Overvoltage Protection

Second regulator loop, completely stable and independent of main regulator loop  
OVP setting: 140V +/- 5V

### Efficiency

min. 85% at full load

### Operating Temperature Range

0 to 50°C for full specification with proper installation

### Temperature Drift

0.03% per °C over operating temperature range

### Cooling

Natural convection and conduction cooling via base plate.

### Environmental Protection

Basic ruggedizing

### MTBF

150,000 hours @ 45°C

### Indicators

Green 'Output ON' LED visible through the cooling slots

### Control Input

None

### Alarm Output

None

### Package / Dimensions (WxHxL)

F1: 112mm x 50mm x 197mm  
(4.5" x 2.0" x 7.8")  
Mounting holes are clear

### Weight

0.77kg (1.7 lb.)

### Connections


9 poles 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 TS	Drawing No./ Rev. SCD 1828 0694 NDA
Approved by TS	

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