

## Source Control Document.

**Model:** MIW 100-24FTND (Standard ND Stock Version)

**OSD :** 1570 0694 SPND

**Summary description:** 95W Single Output, AC/DC Power Supply  
24Vdc/3.95A

**Customer Name:** ABS ND Stock



### 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 253V as well as DC voltage from 111V 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

115-230Vac (-15% and +10%)  
95Vac to 253Vac  
47 – 63Hz  
111 ... 360Vdc  
Input Current 1.9A 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

#### Terminal Block Pin-out

DC OUTPUT			INPUT		
—	+	NOT USED	GND	(+) PH	(-) N
1	2	3	4	5	6

#### Output Voltages/Currents

24Vdc/3.95A  
Adjustable 23.8...28.2V (95Wmax)  
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 60mVrms or 300mVpp (@ 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° C to +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 TS/bd	Date August 23, 2010
Checked by WA	Drawing No./ Rev. SCD 1570 0694NDA3
Approved by TS	

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