Source Control Document. Page 1 of 2 (Page 2: Label Sheet)

Model: MIW 100-12FTND (Standard ND Stock Version)

OSD: 1337 0397 SPND

Summary description: 100W Single Output, Power Supply

12V/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 120V 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 an 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



115-240Vacc (-15% and +10%) 95-264Vac range 47 – 63Hz 110 ... 360Vdc Input Current 2A 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

SPECIFICATIONS

Output Voltages/Currents

12VDC/8A

Adjustable 11.8...15.2V 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: 9A +/- 0.5A

Output Overvoltage Protection
Double regulator loop
OVP Setting: 16V +/- 0.7V

Efficiency

Min. 80% at full load

Operating Temperature Range

 $0^{\circ} + 50 \circ C$ 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

150.000 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

Warrantv

Two years subject to application within good engineering practice

Drawn by TS/bh	Date July 23, 2009
Checked by PW	Drawing No./ Rev. SCD 1337 0397NDA2
Approved by TS	ABSOPULSE ELECTRONICS LTD.

This document is the property of Absopulse Electronics Ltd. Its contents are proprietary and may neither be copied, reproduced, nor its contents disclosed to others without prior written agreement from Absopulse Electronics Ltd.