



SPECIFICATION

For

SWITCHING POWER SUPPLY

M/N: MPE-F15-12





1.0 INTRODUCTIONS

MPE-F15-12 is a 15Watts, universal AC input switching power supply with over load hiccup mode protection.

2.0 INPUT SPECIFICATIONS

2.1 Input Voltage

The range of input voltage is from 85VAC to 264VAC.

2.2 Input frequency

The range of input frequency is from 47Hz to 63Hz.

2.3 Input current

The maximum input current is 1A at 115VAC or 0.6A at 230VAC.

2.4 Inrush current

The inrush current will not exceed 20A at 115VAC input or 40A at 230VAC input, cold start, 25°C.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

Output voltage	Min. load	Rated load	Voltage accuracy
+12V	0A	1.25A	11.88V to 12.12V

At factory, the +12V output is set to between 11.88V to 12.12V at 60% rated load.

3.2 Ripple and noise

The peak to peak ripple and noise is less than 120mV of output voltage at rated load.

Measuring is done by 20MHz bandwidth limited oscilloscope and terminated the output with a 0.47uF capacitor.

3.3 Line regulation

The line regulation is less than $\pm 0.5\%$ while measuring at rated load and $\pm 10\%$ of input voltage changing.

3.4 Load regulation

The load regulation is less than $\pm 1\%$, measuring is done by changing the output load $\pm 40\%$ from 60% rated load.



4.0 GENERAL FEATURES

4.1 Efficiency

The efficiency is higher than 80% typical while measuring at nominal line and rated load.

4.2 Hold up time

The hold up time is longer than 16mS typical at 115VAC input and rated load.

4.3 Protection

The power supply will go into hiccup mode against short circuit or over load conditions, and will auto-recovery while faulty conditions are removed.

4.4 Isolation

The Isolation voltage from input to output is 3000VAC.

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature

0°C to 45°C

5.2 Storage temperature

-40°C to 100°C

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards

Designed to meet the following standards:

UL 1950

CSA 22.2 No. 234

EN 60950

6.2 EMI standards

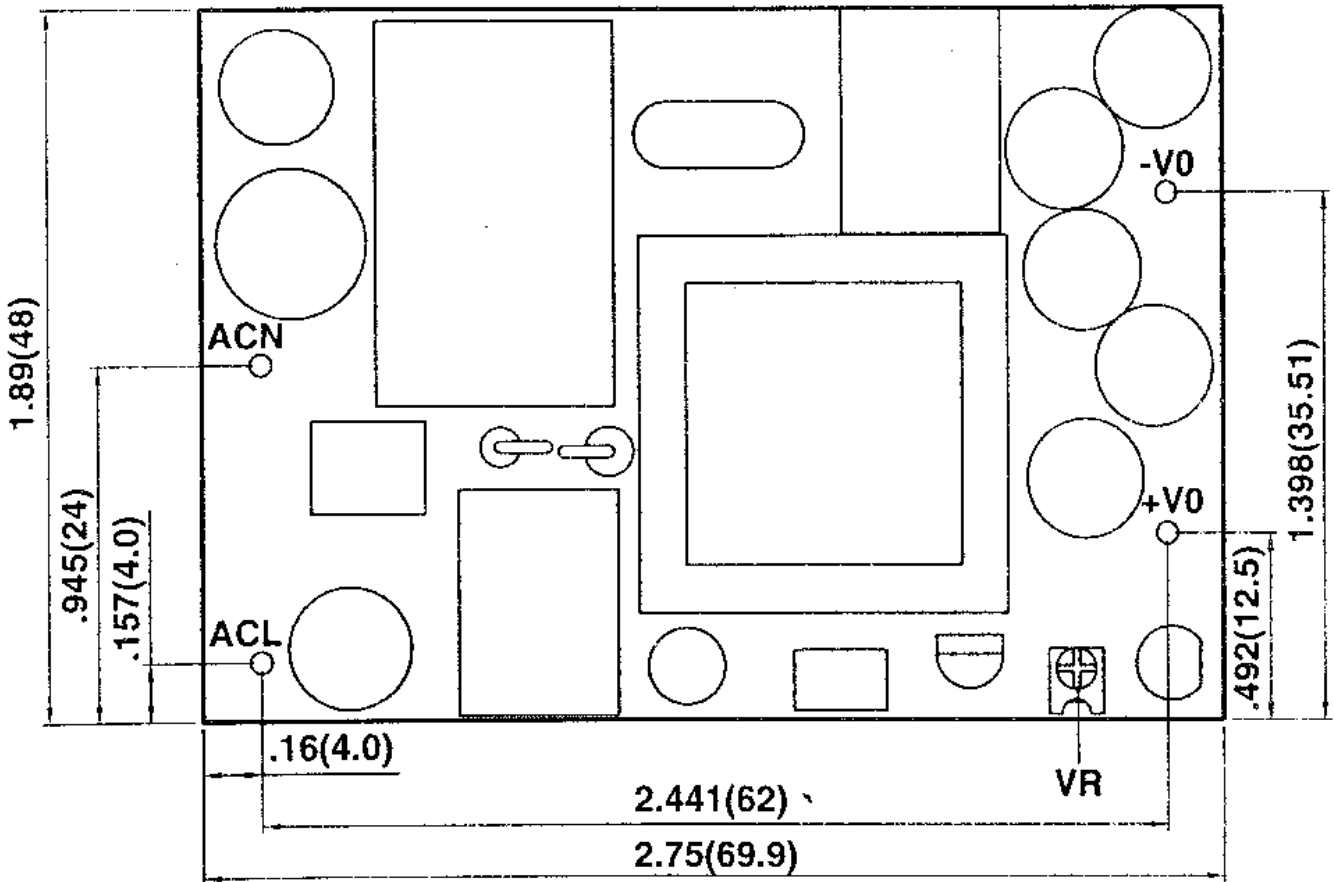
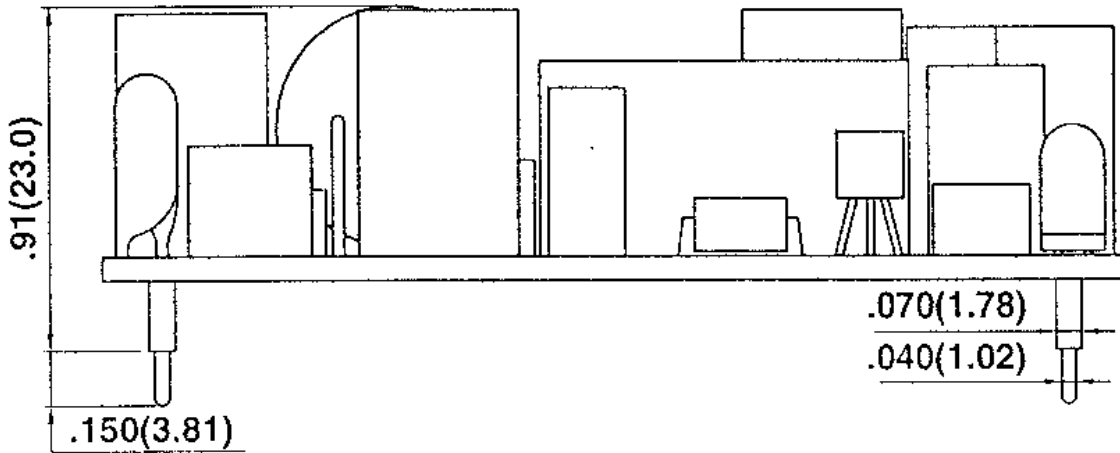
Designed to meet the following limits:

FCC docket 20780 curve "B"

EN 55022 "B"



7.0 MECHANICAL SPECIFICATION



7.1 Dimensions

Dimensions are shown in inch (mm) as above. Tolerance specified is +/-0.4mm.