



Model No.	Output Voltage	Min. Load	Rated Load	Voltage Accuracy
MPE-F40-05	+5V	0A	6A	4.9~5.1V
MPE-F40-12	+12V	0A	3.34A	11.76~12.24V
MPE-F40-24	+24V	0A	1.67A	23.5~24.5V
MPE-F40-48	+48V	0A	0.834A	47.04~48.96V

Specifications

Input Voltage

The range of input voltage is from 90~264VAC

Input Frequency

47~63Hz

Input Current

The maximum input current is 0.65A at 115VAC or 0.32A at 230VAC

Inrush Current

The cold inrush current will limit less than 50A at 264VAC input voltage

Load Range

At factory, the output is checked between 4.9~5.1V(MPE-F40-05)/11.76~12.24V(MPE-F40-12)/23.5~24.5V(MPE-F40-24)/47.04~48.96V(MPE-F40-48) at 60% rated load

Ripple And Noise

The peak to peak ripple and noise is less than 50mV(MPE-F40-05)/120mV(MPE-F40-12)/240mV(MPE-F40-24)/480mV(MPE-F40-48). Measuring is done by 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor at rated load, nominal line

Line Regulation

The line regulation is less than +/-0.5% while measuring at rated load and from 100VAC to 240VAC input voltage changing

Load Regulation

The load regulation for output is less than +/-1%, measuring is done by changing the output load +/-40% from 60% rated load

Hold Up Time

Hold up time is 8mS typical at 115VAC input, full load

Efficiency

The efficiency is 78%(MPE-F40-05)/84%(MPE-F40-12)/86%(MPE-F40-24)/88%(MPE-F40-48) typical while measuring is at nominal line and rated load

Protection

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

Temperature

0~+50°C (operating); -40~+85°C (storage)

Humidity

5~95%; non-condensing

Connectors

I/P Connector: Molex housing 09-50-3031 and Molex 2878 series crimp terminal

O/P Connector: Molex housing 09-50-3031 and Molex 2878 series crimp terminal

Safety

UL 1950 / TUV EN60950 / CE mark

EMI

EN55022 class B

Dimensions

10.16 x 5.08 x 3.048 cm; tolerance specified is +/-0.4mm

Ordering Guide

- ◆ **MPE-F40-05**
40W 85~264VAC Open Frame P/S (+5V Output Voltage)
- ◆ **MPE-F40-12**
40W 85~264VAC Open Frame P/S (+12V Output Voltage)
- ◆ **MPE-F40-24**
40W 85~264VAC Open Frame P/S (+24V Output Voltage)
- ◆ **MPE-F40-48**
40W 85~264VAC Open Frame P/S (+48V Output Voltage)