



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)