

AC-DC Medical Switching Open Frame Power Supply (High Power Density)

NEW

500 Watt

eMQF500 Series

AC-DC Switching Power Supply



- ◆ Open Frame and Enclosed Package
- ◆ Universal Input: 90-264 VAC, 47-63 Hz
- ◆ Remote ON/OFF Function
- ◆ 240 Watt with Free Air Convection (MQF5000 only)
- ◆ 500 Watt with 30C F M F A N (MQF5000 only)
- ◆ Built-in 12V/0.3A Auxiliary Output
- ◆ High Efficiency up to 93%
- ◆ With P.F.C. Function >0.94
- ◆ Standby 5V@1 A with Fan, @0.4A without Fan (MQF5000)
- ◆ Standby 5V@1 A (MQF500E)
- ◆ Suitable for BF Application with Appropriate System Consideration
- ◆ UL/ IEC / EN 60601 3.1 Edition & UL/ IEC / EN 60950 AM2 Safety Approvals
- ◆ 3-Year Warranty

Input Specifications	
Voltage Range	90 ~ 264 VAC or 127~370 VDC
Frequency	47~63 Hz
Output Specifications	
Output Power	eMQF240O: Convection: 230 Watt (115 VAC) (max.) 240 Watt (230 VAC) (max.) 30CFM FAN: 500 Watt (max.) ----- MQF500E: 500 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin)
Minimum Load	3% (at Full Load)
Line Regulation	±0.5% (115-264 VAC) (typ.)
Load Regulation	±1% (10% to 100% at Full Load)
Ripple & Noise	12S: 1600mV (Vp-p) (typ.) (20MHz bandwidth) 24S: 240mV (Vp-p) (typ.) (at Full Load) 48S: 480mV (Vp-p) (typ.)
Temperature Coefficient	±0.03% / °C (0~50°C) (max.) ±0.03% / °C (-30~0°C) (max.)
Short Circuit Protection	Auto recovery, Hiccup mode
General Specifications	
Efficiency (see table list)	eMQF240O: 90.5% to 93.5% (typ.) eMQF240E: 89% to 92% (typ.)
Isolation Voltage	4000 VAC or 5656 VDC
Isolation Resistance	10 ⁸ Ω (Input to Output) (min.)
Operating Temperature	-30°C to +70°C (with Derating)
Storage Temperature	-30°C to +85°C
Humidity	90% RH (max.)
Cooling	Free-air Convection
Physical Specifications	
Dimension (Tolerance ±0.5 mm)	eMQF240O: 127.8 x 76.2 x 35.0 mm 5.03 x 3.0 x 1.38 inches ----- eMQF240E: 139.7 x 82.55 x 62.9 mm 5.5 x 3.25 x 2.48 inches
Weight	eMQF500O: 480 g / MQF500E: 690 g

Model

eMQF500O Single Output

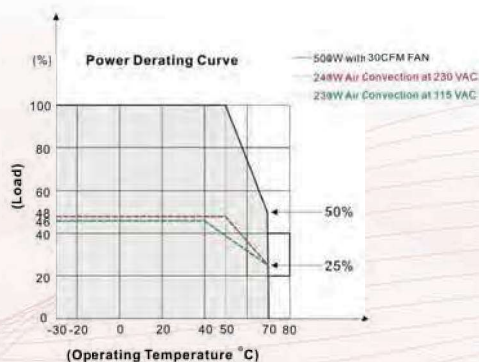
Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.		Eff (%)
			Convection Vin	30CPM FAN	
eMQF500O-12S	90~264	12	19.16 / 20	41.5	90.5
eMQF500O-24S	90~264	24	9.58 / 10	20.8	92
eMQF500O-48S	90~264	48	4.8 / 5	10.41	93

eMQF500E Single Output

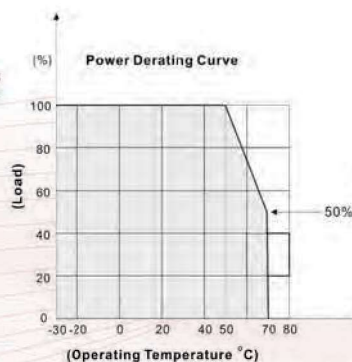
Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eMQF500E-12S	90-264	12	41.5	89
eMQF500E-24S	90-264	24	20.8	91
eMQF500E-48S	90-264	48	10.41	92

Derating

eMQF500O Series



eMQF500E Series



eMQF500O / eMQF500E Series

