

NEW

240 Watt

eAQF240 Series

AC-DC Medical Switching Power Supply



- ◆ Open Frame and Enclosed Package
- ◆ Universal Input: 90-264 VAC, 47-63 Hz
- ◆ 4000VAC Input to Output 2MOPP Insulation
- ◆ Cooling by Free Air Convection (eMQF2400 only)
- ◆ 160 Watts and 240 Watt with 10CFM Forced Air (eMQF2400 only)
- ◆ Built-in 12V / 0.5A Fan Supply (eMQF2400 only)
- ◆ High Efficiency up to 93.5%
- ◆ With P.F.C. Function >0.9
- ◆ <0.5W No Load Input Power
- ◆ EMI for Both Class I (with FG) and Class II (without FG) Configuration
- ◆ 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 - 264VAC
Frequency	47~63 Hz
Output Specifications	
Output Power	MQF2400: Convection: 160 Watt
Voltage Accuracy	10CFM FAN: 240 Watt (max.)
Minimum Load	MQF240E: 240 Watt (max.)
(at Full Load)	±2% (Full Load and Nominal Vin)
Line Regulation	0% (at Full Load)
Load Regulation	±1% (LL to HL at Full Load) (typ.)
Ripple & Noise	±1% (0% to 100% at Full Load) (typ.)
(20MHz bandwidth)	1% Vout (20MHz bandwidth)
Temperature Coefficient	±0.05% / °C (max.)
Short Circuit Protection	Auto recovery, Hiccup mode
General Specifications	
Efficiency (see table list)	eMQF2400: 92.5% to 93.5% (typ.)
Isolation Voltage	eMQF240E: 92% to 93% (typ.)
Isolation Resistance	4000 VAC or 5656 VDC (min.)
Operating Temperature	10° Ω (Input to Output) (min.)
Storage Temperature	-30 °C to +70°C (with Derating)
Humidity	-30°C to +85°C
Cooling	20-90% RH (max.)
Vibration	Free-air Convection
Physical Specifications	
Dimension	eMQF2400: 103.9 x 52.0 x 27.6 mm
(Tolerance ±0.5 mm)	4.1 x 2.05 x 1.087 inches
Weight	eMQF240E: 104.0 x 62.0 x 49.5 mm
	4.1 x 2.44 x 1.95 inches
	Pending

Model

eMQF2400 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.		Eff (%)
			Convection	10 CFM FAN	
eMQF2400-12S	90~264	12	13.3	20	92.5
eMQF2400-24S	90~264	24	6.66	10	93
eMQF2400-48S	90~264	48	3.33	5	93.5

eMQF2400 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eMQF240E-12S	90~264	12	20	92
eMQF240E-24S	90~264	24	10	92.5
eMQF240E-48S	90~264	48	5	93

Standard Type

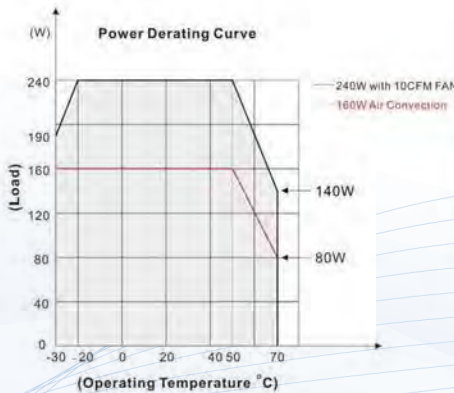


A Type

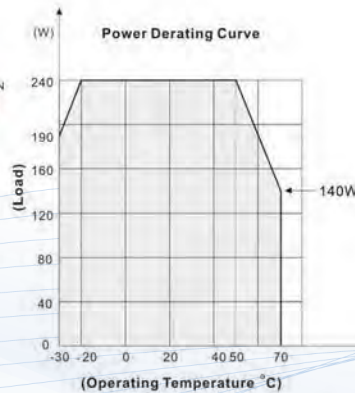


Derating

eMQF2400 Series



eMQF240E Series



eMQF2400 / eMQF240E Series

