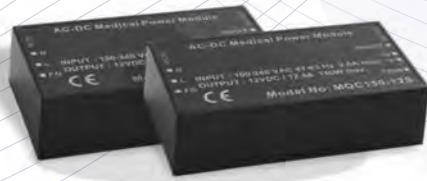


**NEW** 100 Watt / 125 Watt  
eMQC100 / eMQC 150 Series

ITE Medical Power Module



- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-264 VAC, 47-63 Hz
- ◆ 4000VAC Input to Output 2MOPP Insulation
- ◆ Cooling by Free Air Convection
- ◆ 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

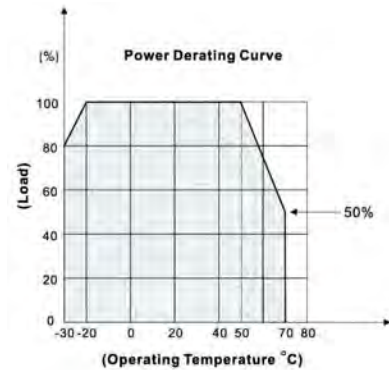
Input Specifications	eMQC100	eMQC150
Voltage Range	90 ~ 264 VAC	
Frequency	47~63 Hz	
Output Specifications	eMQC100	eMQC150
Output Power	100 Watt (max.)	100 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin)	
Minimum Load	0% (at Full Load)	
Line Regulation	±1% (LL to HL at Full Load)	(typ.)
Load Regulation	± 1 % (5% to 100% at Full Load) (typ.)	
Ripple & Noise (20MHz bandwidth)	1% Vout (20MHz bandwidth)	(max.)
Temperature Coefficient	±0.02% °C (max.)	
Short Circuit Protection	Auto recovery, Hiccup mode	
General Specifications	eMQC100	eMQC150
Efficiency (see table list)	92.5% to 93.5% (typ.)	93% to 93.5% (typ.)
Isolation Voltage	4000VAC or 5656VDC (min.)	
Isolation Resistance	10 <sup>8</sup> Ω (Input to Output) (min.)	
Operating Temperature	-30 °C to + 70°C (with Derating)	
Storage Temperature	-30 °C to +85°C	
Humidity	95% RH (max.)	
Cooling	Free-air Convection	
Physical Specifications		
Dimension (Tolerance ±0.5 mm)	109.0 x 58.5 x 34.5 mm 4.3 x 2.3 x 1.58 inches	
Weight	Pending	
Case Material	Plastic resin (flammability to UL 94V-0)	

**Model**

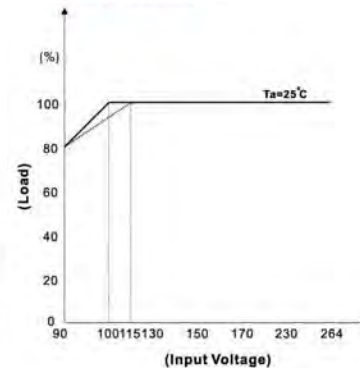
► eMQC100 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eMFC100-12S	90~264	12	8330	92.5
eMFC100-24S	90~264	24	4200	93
eMFC100-48S	90~264	48	2100	93.5

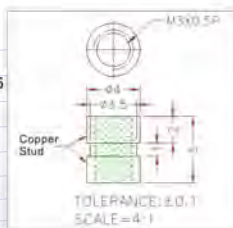
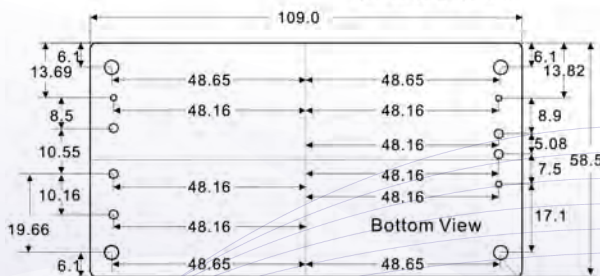
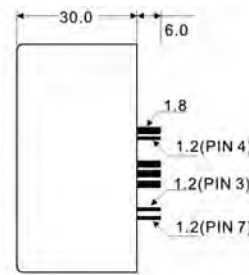
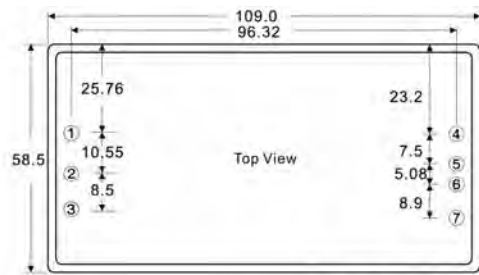
**Derating**



eMQC100 Series  
eMQC150 Series



**Outline Dimensions & Pin Connections**



- Pin # Single
- ① AC IN (N)
  - ② AC IN (L)
  - ③ FG
  - ④ ON / OFF
  - ⑤ - DC OUT
  - ⑥ +DC OUT
  - ⑦ Trim