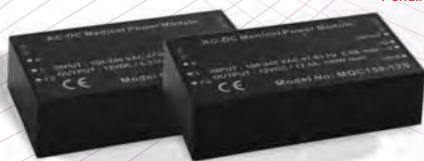


100 Watt / 150 Watt

# eMQC100 / eMQC150 Series

ITE 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 or 120~370 VDC	
Frequency	47~440Hz	
Output Specifications	eMQC100	eMQC150
Output Power	100 Watt (max.)	150 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 % (0% to 100% at Full Load) (typ.)	
Ripple & Noise	1% Vout (20MHz bandwidth) (max.)	
Temperature Coefficient	±0.05% / °C (max.)	
Short Circuit Protection	Automatic recovery	
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	eMQC100	eMQC150
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

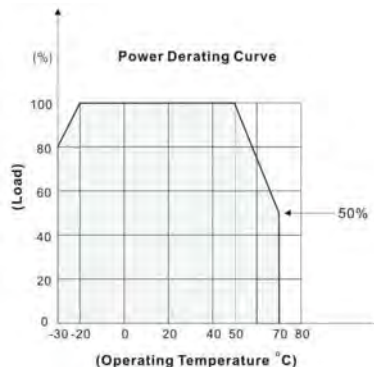
### ►► eMQC100 Single Output

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

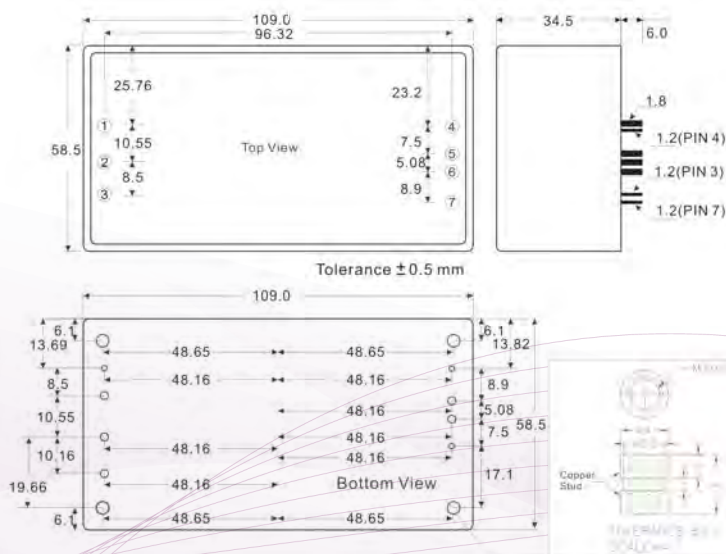
### ►► eMQC150 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eMFC150-12S	90~264	12	12500	92.5
eMFC150-24S	90~264	24	6250	93
eMFC150-48S	90~264	48	3125	93.5

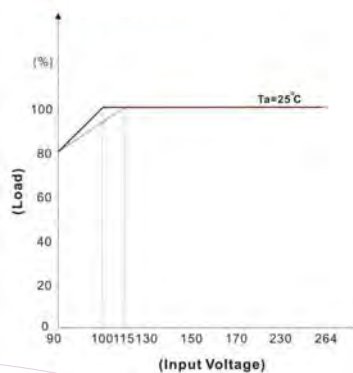
## Derating



## Outline Dimensions & Pin Connections



eMQC100 Series  
eMQC150 Series



- Pin #
- 1 Single
  - 2 AC IN (N)
  - 3 AC IN (L)
  - 4 FG
  - 5 NO /OFF
  - 6 -DC OUT
  - 7 -DC OUT
  - Trim