

# (M) AC-DC ITE Power Module

**NEW**

**30 Watt**

## eMTC30 Series

(H) ITE Medical Power Module



- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-264 VAC, 47-440 Hz
- ◆ <0.15W No Load Input Power
- ◆ Regulated Output and Low Ripple and Noise
- ◆ Optional with Screw Terminal
- ◆ Isolation Class II
- ◆ CE, CB, UL, cUL Approvals
- ◆ 3-Year Warranty

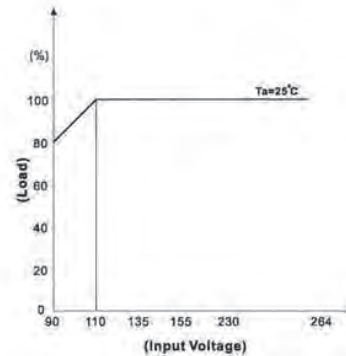
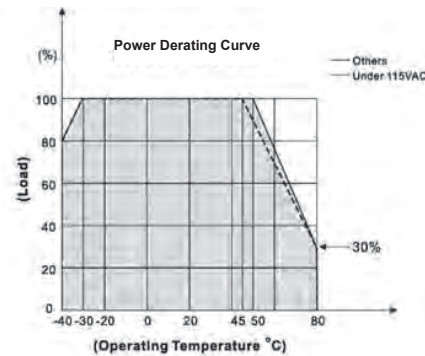
Input Specifications	
Voltage Range	90 ~ 264 VAC or 120~370 VDC
Frequency	47~440Hz
Output Specifications	
Output Power	30 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin) (typ.)
Line Regulation	±0.5% (LL to HL at Full Load) (typ.)
Load Regulation	±1% (10% to 100% at Full Load) (typ.)
Ripple Noise	5S: 100mV (max.)
(20MHz bandwidth)	12S:15S:150mV
	24S:240S:150mV (max.)
Temperature Coefficient	±5% / °C (max.)
Short Circuit Protection	Hiccup mode, indefinite (Automatic recovery)
General Specifications	
Efficiency (see table list)	84% to 89% (typ.) (typ.)
Isolation Voltage	4000VAC or 5656VDC (min.)
Isolation Resistance	10 <sup>9</sup> Ω (Input to Output) (min.)
Operating Temperature	-40°C to +80°C (With Derating)
Storage Temperature	-40°C to +90°C
Altitude During Operation	500m
Atmospheric Pressure	70 kPa to 1 06 kPa
Humidity	95% RH (max.)
Cooling	Free-air Convection
Physical Specifications	
Dimension	64.1 x 45.6 x 23.5 mm
(Tolerance ±0.5 mm)	2.52 x 1.8 x 0.93 inches
Weight	135 g
Case Material	Plastic resin (flammability to UL 94V-0)

### Model

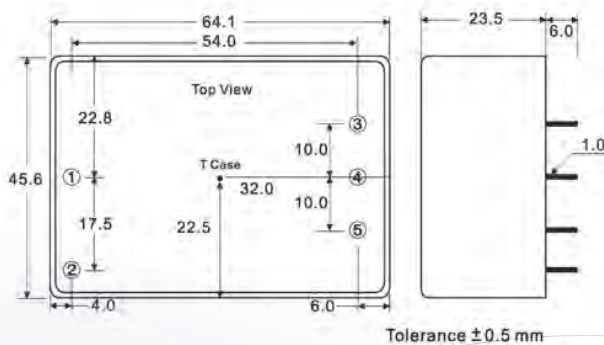
#### eMTC30 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eMTC30-5S	90~264	5	5000	84
eMTC30-12S	90~264	12	2500	89
eMTC30-15S	90~264	15	2000	86
eMTC30-24S	90~264	24	1250	86

### Derating



### Outline Dimensions & Pin Connections



Pin #	Single
①	AC IN (N)
②	AC IN (L)
③	- DC OUT
④	NO PIN
⑤	+DC OUT