

# TR30M SERIES 30W MEDICAL SWITCHING ADAPTER



# **Features**

- \* Universal Input: 90~264Vac
- \* Meets EN60601-1 and EN55011 Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* CEC Level IV Compliant except TR30M050 Meets CEC Level III

(Output Cable Length  $\leq$  1800mm)

(TR30M050: Output Cable Length ≤ 720mm)

\* Efficiency & Standby Power Meet Level V (Option)

(Output Cable Length  $\leq$  1800mm)

(TR30M050: Output Cable Length  $\leq$  720mm) (TR30M090: Output Cable Length  $\leq$  1220mm)

\* Meets 2MOPP



# **Ordering information**

TR30MXXX - XX

E XX

Model No. DC Plug Type

DC Cable Length and Type

01: 720mm

02: 1220mm

03: 1800mm

11: 720mm with Ferrite Core

12: 1220mm with Ferrite Core

13: 1800mm with Ferrite Core

\* 18AWG / SPT1

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE4	% EFF. (Typ.) NOTE 5
TR30M050	5 V	4 A	50 mVp-p	±2%	±1%	±6%	76%
TR30M090	9 V	3 A	90 mVp-p	±2%	±1%	±4%	82%
TR30M120	12 V	2.5 A	120 mVp-p	±2%	±1%	±3%	82%
TR30M150	15 V	2 A	150 mVp-p	±2%	±1%	±3%	85%
TR30M180	18 V	1.65 A	180 mVp-p	±2%	±1%	±2%	85%
TR30M240	24 V	1.25 A	240 mVp-p	±2%	±1%	±2%	84%

## **Specifications**

#### **INPUT SPECIFICATIONS:**

Voltage	90~264Vac
Frequency	47 to 63Hz
Inrush Current	50A max. @240Vac
Input Current	0.6A max.

#### **OUTPUT SPECIFICATIONS:**

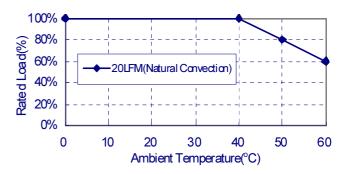
Hold-up Time	16ms typ. @115Vac
Short Circuit Protection	Continuous(Auto Recovery)
Over Voltage Protection	TVS Component to Clamp
Temperature Coefficient	±0.05%/°C

#### **GENERAL SPECIFICATIONS:**

Isolation	Input to output = 5,656VDC				
Operating Temperature	0 ~ 60°C (see derating curve)				
Storage Temperature	20~85°C				
Humidity	93% RH max. Non condensing				
Cooling	Natural Convection				
Switching Frequency	65KHz Typical				
MTBF MIL-HDBK-217F, GB,	25°C/115VAC 300Khrs min.				
Altitude	3000m				
Dimensions 4.331x1.969x1.183	1 inches (110.00x50.00x30.00mm)				
Weight	220g(0.49 Pounds)				
CAEETY AND EMC.					

#### **SAFETY AND EMC:**

# **TR30M Series Derating Curve**



#### NOTE:

- 1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
- 2. Voltage setpoint at 60% full load.
- 3. Line regulation is measured from 100Vac to 240Vac with full load.
- 4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
- 5. Typical efficiency at 230VAC and full load at 25°C.

### **Mechanical Specification**

All Dimensions are in inches(mm)
Tolerance:Inches:X.XXX±0.02
Millimeters:X.XX±0.5

