

# TR30M

S E R I E S

## 30W MEDICAL SWITCHING ADAPTER



### Features

- Universal Input Range 90-264VAC
- Meets EN60601-1 and EN55011 Class B
- Continuous Short Circuit Protection
- Over Voltage Protection
- TR30M Series meets CEC Level IV except TR30M050 meets CEC Level III (Output Cable Length  $\leq$  1800mm) (TR30M050: Output Cable Length  $\leq$  720mm)

### Ordering information

TR30MXXX - XX	E XX
Model No.	DC Plug Type
* Please see Page 235 for more detailed descriptions	
	DC Cable Length and Type
	01 : 720mm
	02 : 1200mm
	03 : 1800mm
	11 : 720mm with Ferrite Core
	12 : 1200mm with Ferrite Core
	13 : 1800mm with Ferrite Core
	* 18AWG / UL1185

MODEL	OUTPUT VOLTAGE	MIN. LOAD	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REGULATION	LOAD REGULATION	%EFF.
TR30M050	5V	0	4A	50mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 6%	71% min.
TR30M090	9V	0	3A	90mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 4%	75% min.
TR30M120	12V	0	2.5A	120mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	76% min.
TR30M150	15V	0	2A	150mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	78% min.
TR30M180	18V	0	1.65A	180mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	78% min.
TR30M240	24V	0	1.25A	240mVp-p	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	80% min.

### Specifications

#### INPUT SPECIFICATIONS:

Voltage .....90 ~ 264Vac  
 Frequency .....47 to 63Hz  
 Inrush Current.....50A max. @240Vac  
 Isolation .....Input to output =5.656VDC  
 Input Current.....0.6A max

#### OUTPUT SPECIFICATIONS:

Holdup Time .....16mS typ. @115Vac  
 Short Circuit Protection .....Continuous (Auto Recovery)  
 Over Voltage Protection .....Yes

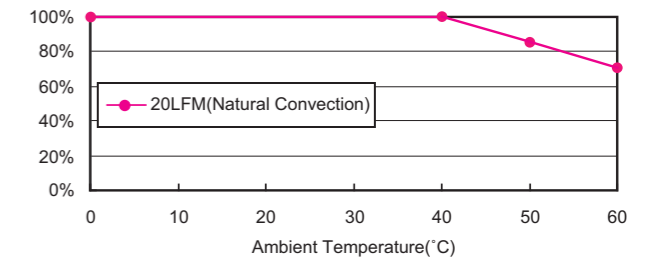
#### ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature .....0 ~ 40°C  
 Storage Temperature .....-20 ~ 85°C  
 Cooling.....Natural Convection

#### MECHANICAL CHARACTERISTICS:

Dimensions .....110.00 x 50.00 x 30.00mm(4.331 x 1.969 x 1.181 Inches)  
 Weight .....220g (0.49 Pounds)

### TR30M Series Derating Curve



#### NOTE:

1. Voltage setpoint at 60% full load.
2. Add a 0.1 $\mu$ F ceramic capacitor and a 10 $\mu$ F E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load)

### Mechanical Specification

All Dimensions In Inches(mm)  
 Tolerance Inches: x.xxx=  $\pm$ 0.02  
 Millimeters: x.xx=  $\pm$ 0.5

