



# TR36M SERIES

## 36W MEDICAL SWITCHING ADAPTER



### Features

- \* Universal Input Range 80~264VAC
- \* Approved EN55011, FCC CFR47 Part15 Class B
- \* Meets EN60335
- \* Approved EN60601-1-11 for Home Healthcare Applications
- \* Low Leakage Current < 80uA
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* No Load Power Consumption < 75mW
- \* 2 MOPP Class II
- \* Meet CoC Tier 2 & DoE Level VI  
(Output Cable Length  $\leq$  1800mm)  
(TR36M050: Output Cable Length  $\leq$  1220mm)



### Ordering Information

TR36MXXX -XX	X	XX
Model No.	DC Plug Type	DC Cable Length and Type
	G: UL1571 WITH OVP	01: 720mm
	E: UL1185 WITH OVP	02: 1220mm
	* 16AWG / UL1571 or Equivalent for Vo: 5V	03: 1800mm
	* 18AWG / UL1571 or Equivalent for Vo: 9V, 12V, 13.5V	11: 720mm with Ferrite Core
	* 20AWG / UL1571 or Equivalent for Vo: 15V, 18V, 24V	12: 1220mm with Ferrite Core
	* 20AWG / UL1185 or Equivalent for Vo: 36V, 48V	13: 1800mm with Ferrite Core

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
TR36M050	5V	5.0A	100mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	85%
TR36M090	9V	3.3A	120mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	88%
TR36M120	12V	2.5A	120mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M135	13.5V	2.4A	130mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M150	15V	2.4A	150mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M180	18V	2.0A	180mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M240	24V	1.5A	240mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M360	36V	1.0A	360mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR36M480	48V	0.75A	480mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 80~264Vac(see Derating Curve)  
 120~370Vdc  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.9A max.  
 Inrush Current ..... Cold start@25°C ..... 100A max. @240Vac  
 Leakage Current ..... 80uA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Hiccup Mode Continuous(Auto Recovery)  
 Over Voltage Protection ..... IC Component to Clamp(Auto Recovery)  
 Temperature Coefficient ..... ±0.05%/°C

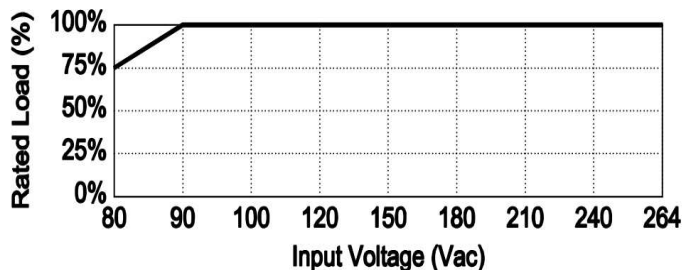
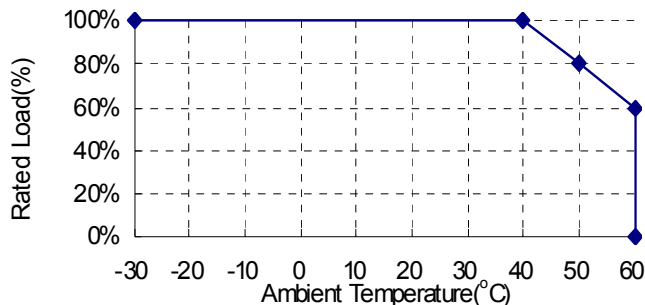
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output 4,000VAC  
 Operating Temperature ..... -30 ~ 60°C (see derating curve)  
 Storage Temperature ..... -30~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 65KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 1000Khrs max.  
 Altitude ..... 5000m  
 Dimensions ..... 3.937x1.771x0.886 inches (100.00x45.00x22.50mm)  
 Weight ..... 150g(0.33 Pounds)

### SAFETY AND EMC:

Emission and Immunity (Ed4.0) ..... EN55011, EN60601-1-2  
 EN61000-3-2, EN61000-3-3, IEC61000-4-2, 3, 4, 5, 6, 8, 11  
 FCC CFR47 Part 15 Class B  
 Safety Approved (Ed.3.1) ..... IEC60601-1:2005+A1, EN60601-1-11  
 EN60601-1:2006+A11:2011+A1+A12  
 ANSI/AAMI ES60601-1:2005/A1:2012

## TR36M Series Derating Curve

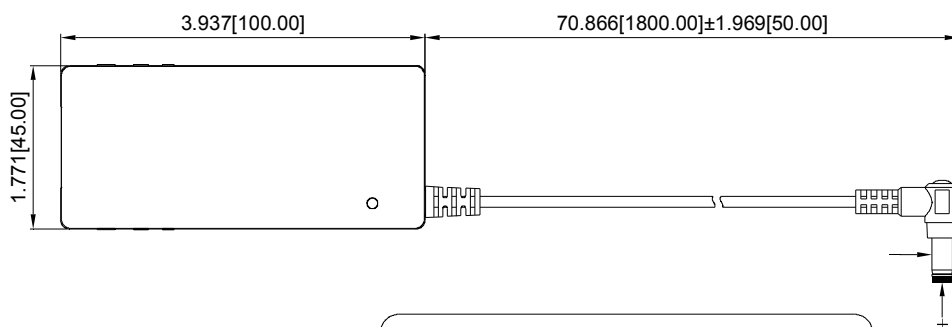


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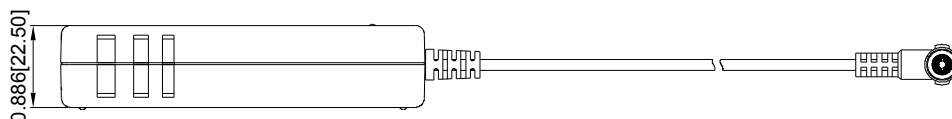
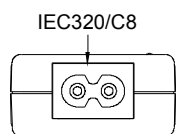
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
2. Voltage setpoint at 60% full load.
3. Line regulation is measured from 100Vac to 240Vac full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
5. Efficiency measured at 75% load and input voltage is 230Vac.

## Mechanical Specification

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



DC Plug type: V+ —●— V-  
 DC Plug :Right Angle(φ 5.5/φ 2.1)L12mm  
 20AWG/1800mm



Typical at 25°C, nominal line and 75% load, unless otherwise Specified

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