

TR60M

S E R I E S

60W MEDICAL SWITCHING ADAPTER



Features

- Universal Input Range 90-264VAC
- Meets EN60601-1 and EN55011 Class B
- Continuous Short Circuit Protection
- Over Voltage Protection
- CEC Level IV Compliant (Output Cable Length \leq 1800mm) (TR60M Series meets CEC IV except TR60M05 is Non-CEC Compliant) (TR60M12: Output Cable Length \leq 1200mm 16AWG)

Ordering information

TR60MXX	-	XX	X	XX
Model No.	DC Plug Type	OVP	DC Cable Length and Type	
	* Please see Page 235 for more detailed descriptions	E: With OVP	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.
TR60M05	5V	0	6A	50mVp-p	\pm 4%	\pm 1%	\pm 6%	71% Typ.
TR60M12	12V	0	5A	120mVp-p	\pm 2%	\pm 1%	\pm 5%	83% Typ.
TR60M15	15V	0	4A	150mVp-p	\pm 2%	\pm 1%	\pm 3%	84% Typ.
TR60M18	18V	0	3.33A	180mVp-p	\pm 2%	\pm 1%	\pm 2%	84% Typ.
TR60M19	19V	0	3.15A	190mVp-p	\pm 2%	\pm 1%	\pm 2%	85% Typ.
TR60M24	24V	0	2.5A	240mVp-p	\pm 2%	\pm 1%	\pm 2%	85% Typ.
TR60M36	36V	0	1.66A	360mVp-p	\pm 2%	\pm 1%	\pm 2%	86% Typ.
TR60M48	48V	0	1.25A	480mVp-p	\pm 2%	\pm 1%	\pm 2%	87% Typ.

Specifications

INPUT SPECIFICATIONS:

Voltage90 ~ 264Vac
 Frequency47 to 63Hz
 Inrush Current.....80A max. @240Vac
 Conducted EMI.....CISPR/FCC Class B
 IsolationInput to output =5.656VDC
 Leakage Current.....0.1mA max

OUTPUT SPECIFICATIONS:

Holdup Time8mS typ. @115Vac
 Short Circuit ProtectionContinuous
 Over Voltage Protection.....Yes

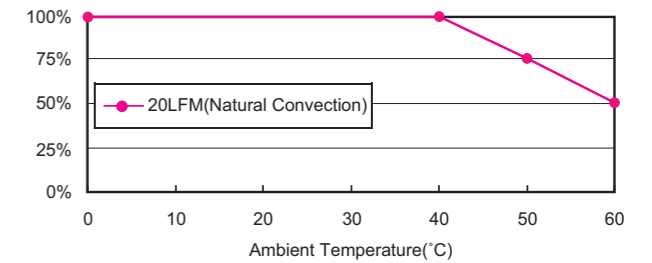
ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature0 ~ 40°C
 Storage Temperature-20 ~ 85°C
 Cooling.....Natural Convection

MECHANICAL CHARACTERISTICS:

Dimensions132.00 x 58.00 x 30.50mm(5.197 x 2.283 x 1.201 Inches)
 Weight345g (0.77Pounds)

TR60M Series Derating Curve



NOTE:

1. Voltage setpoint at 60% full load.
2. Add a 0.1 μ F ceramic capacitor and a 10 μ 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

