

TR100M

S E R I E S

100W MEDICAL SWITCHING ADAPTER



Features

- Universal Input Range 90~264VAC
- Meets EN60601-1 and EN55011 Class B
- Continuous Short Circuit Protection
- Over Voltage Protection
- Efficiency & Standby Power Meet Level V
- (TR100M120~150:Output Cable Length \leq 1500mm 14AWG /UL1185)
- (TR100M190~480 \leq Output Cable Length \leq 1800mm 16AWG /UL1185)
- Meets 2 MOPP

Ordering information

TR100MXXX -	XX	X	XX
Model No.	DC Plug Type	OVP	DC Cable Length and Type

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 2	VOLTAGE ACCURACY NOTE 1	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF (Typ.) NOTE 5
TR100M120	12 V	8.34 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	88%
TR100M150	15 V	6.67 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	88%
TR100M190	19 V	5.27 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR100M240	24 V	4.17 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR100M480	48 V	2.1 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 100A max. @240Vac
 Conducted EMI CISPR/FCC Class B
 Isolation Input to output =4k Vac
 Leakage Current 0.1mA max.

OUTPUT SPECIFICATIONS:

Holdup Time 16ms typ. @115Vac
 Short Circuit Protection Hiccup Mode (Auto Recover)
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

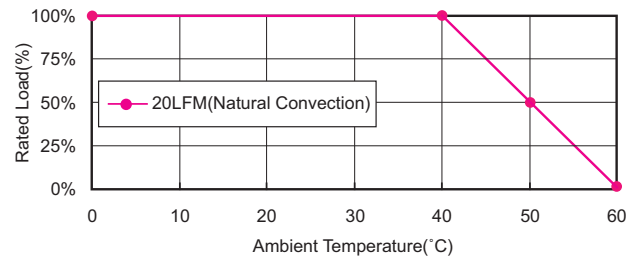
GENERAL SPECIFICATIONS:

Operating Temperature -20~60°C (see derating curve)
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 70KHz Typical
 MTBF MIL-HDBK-217F, GB, at 25°C/115VAC 200K hrs min.
 Altitude 3000m
 Dimensions 5.591x2.283x1.457 inches (142.00x58.00x37.00 mm)
 Weight 520g
 AC Inlet IEC320/C8

SAFETY AND EMC:

Emission and Immunity EN55011, EN60601-1-2, EN61000-3-2
 EN61000-3-3
 Safety IEC60601-1, EN60601-1, UL60601-1

TR100M Series Derating Curve



NOTE:

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

TR100M Series

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

