



TR100M SERIES

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
 - * Meets 2 MOPP
- (TR100M120~150: Output Cable Length \leq 1500mm 14AWG /UL1185)
 (TR100M180~480: Output Cable Length \leq 1800mm 16AWG /UL1185)



Ordering information

Model No.	DC Plug Type	X OVP E: with OVP	XX or XXX DC Cable Length and Type 11: 720mm with Ferrite Core 12: 1220mm with Ferrite Core 36: 1500mm with Ferrite Core 13: 1800mm with Ferrite Core
TR100MXXX-	XX	X	XX or XXX

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%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	88%
TR100M150	15 V	6.67 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	88%
TR100M180	18 V	5.56 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	88%
TR100M190	19 V	5.27 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	88%
TR100M200	20 V	5.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	88%
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 are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 120~370Vdc
 Frequency 47 to 63Hz
 Inrush Current Cold Start @25°C 100A max. @240Vac
 Conducted EMI CISPR/FCC Class B
 Leakage Current 100uA max.

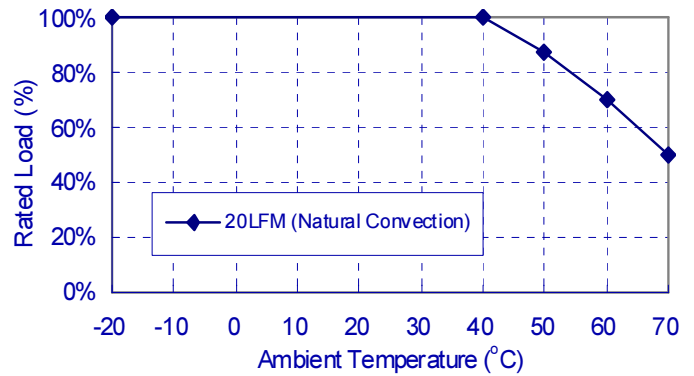
OUTPUT SPECIFICATIONS:

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

GENERAL SPECIFICATIONS:

Isolation Input to output = 4000VAC
 Operating Temperature -20 ~700°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 150Khrs min.
 Altitude 3000m
 Dimensions 5.591x2.283x1.457 inches (142.00x58.00x37.00mm)
 Weight 485g
 AC Inlet IEC320/C8

TR100M Series Derating Curve



SAFETY AND EMC:

Emission and Immunity (Ed 4.0) EN55011, FCC CRF47 Part 18
 EN60601-1-2, EN61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11
 Safety (Ed 3.1) IEC60601-1:2005+A1:2012, EN60601-1:2006/A1:2013
 UL ANSI/AAMI ES60601-1:2005

NOTE:

1. Voltage accuracy at 60% full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measurement @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac, 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 with 230 VAC 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
 UNIT:inches(mm)

IEC320/C8

