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

Ordering information

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

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%	±2%	±1%	±4%	88%
TR100M150	15 V	6.67 A	1%	±2%	±1%	±3%	88%
TR100M180	18 V	5.56 A	1%	±2%	±1%	±2%	88%
TR100M190	19 V	5.27 A	1%	±2%	±1%	±2%	88%
TR100M200	20 V	5.0 A	1%	±2%	±1%	±2%	88%
TR100M240	24 V	4.17 A	1%	±2%	±1%	±2%	89%
TR100M480	48 V	2.1 A	1%	±2%	±1%	±2%	89%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... Cold Start @25℃ 100A max. @240Vac
Conducted EMI ..... CISPR/FCC Class B
Isolation ..... Input to output = 4k Vac
Leakage Current ..... 0.1mA max.

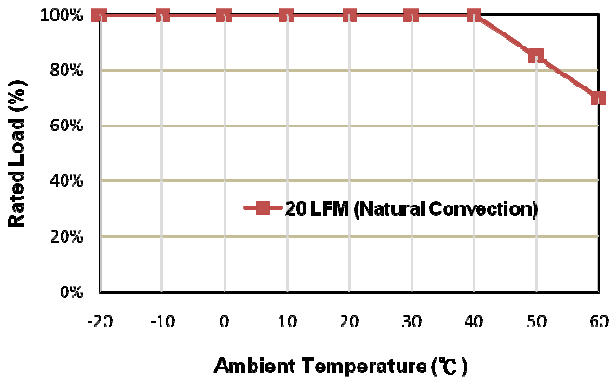
OUTPUT SPECIFICATIONS:

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

GENERAL SPECIFICATIONS:

Operating Temperature ..... -20 ~ 60℃ (see derating curve)
Storage Temperature .....-20 ~ 85℃
Humidity ..... 93% RH max. Non condensing
Cooling ..... Natural Convection
Switching Frequency ..... 70KHz Typical
MTBF ..... MIL-HDBK-217F, GB, at 25℃/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



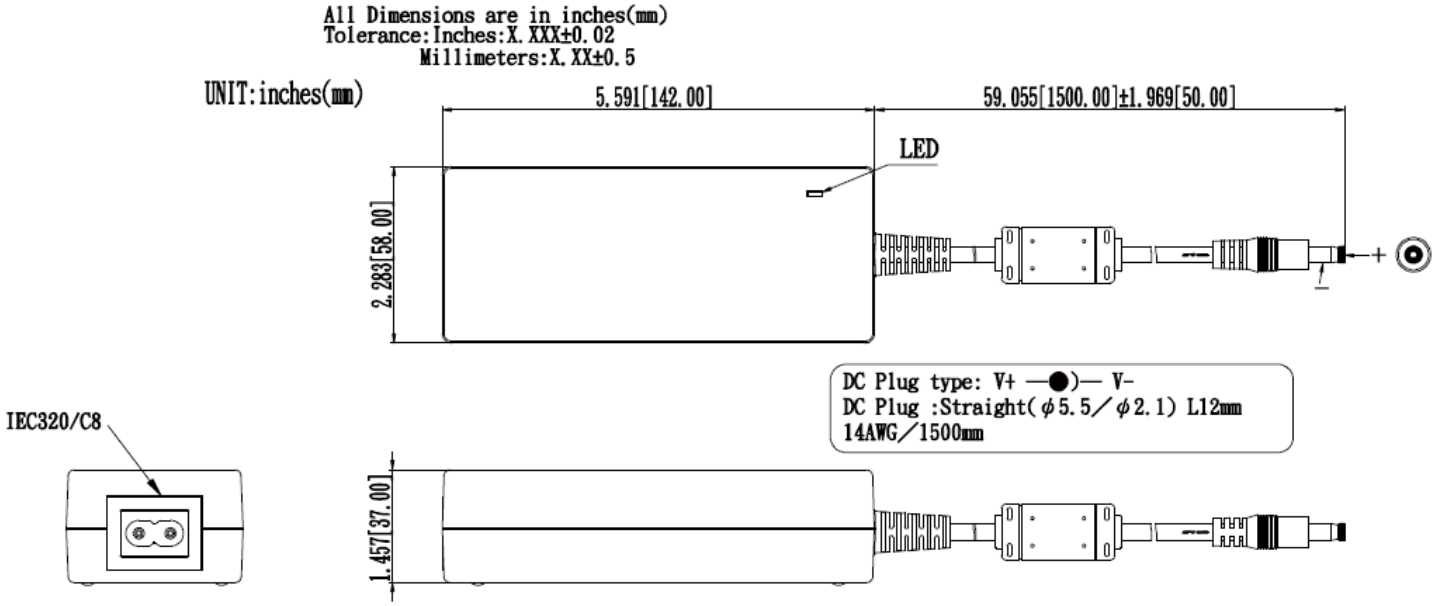
SAFETY AND EMC:

Emission and Immunity EN55011, EN60601-1-2, EN61000-3-2
EN61000-3-3
Safety (Medical 3rd.)..... IEC60601-1, EN60601-1
UL ANSI/AAMI ES60601-1

NOTE:

1. Voltage setpoint 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 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)
5. Typical efficiency with 230 VAC and max. load at 25℃.

Mechanical Specification



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