



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
- * Meet 2 MOPP
- * Efficiency & Standby Power Meet Level V
 - (TR100M120 ~ 150 : Output Cable Length $\leq$ 1000mm 14AWG /UL1185)
 - (TR100M190 ~ 480 : Output Cable Length $\leq$ 1500mm 14AWG /UL1185)

Ordering information

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

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE NOTE2	VOLTAGE ACCURACY NOTE1	LINE REGULATION NOTE3	LOAD REGULATION NOTE4	%EFF. (Typ) NOTE5
TR100M120	12V	8.34A	0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	88%
TR100M150	15V	6.67A	0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	88%
TR100M190	19V	5.27A	0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR100M240	24V	4.17A	0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TR100M480	48V	2.08A	0A	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 =5,656VDC
 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 (142.00x58.00x37.00mm)
 Weight 485g
 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

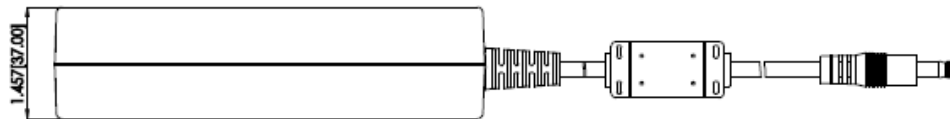
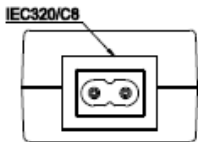
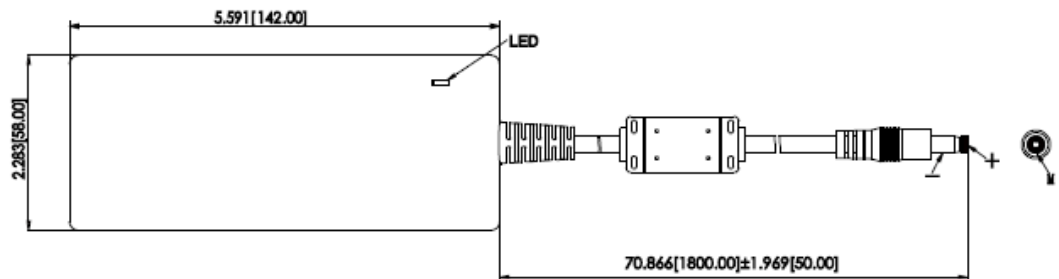
Mechanical Specification

TR100M Series Derating Curve

NOTE:

1. Voltage accuracy is set at 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 10% to 100% full load.
5. Typical efficiency at 230 VAC and full load at 25°C.

All Dimensions in Inches(mm)
 Tolerance Inches:xxx= ± 0.02
 Millimeters:xxx= ± 0.5



DC Plug type: V+ —●— V-
 DC Plug :Straight($\phi 5.5 / \phi 2.5$) L12mm
 14AWG/1800mm

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