

TR15RAM SERIES 15W Medical SWITCHING ADAPTER

Features

- * Universal Input Range 90~264VAC
- * Meets EN60601-1 and EN55011 Class "B"
- * Continuous Short Circuit Protection
- * Interchangeable AC Plugs
- * Over Voltage Protection
- * Efficiency & Standby Power Meet Level V (Output Cable Length≤1800mm)
- * Meets 2MOPP

Ordering information

TR15RAMXXX - XX
Model No. DC Plug Type

E XX - XX -BK

DC Cable Length and Type Color of Overmold Case

 01: 720mm
 BE: Blue

 02: 1220mm
 GY: Gray

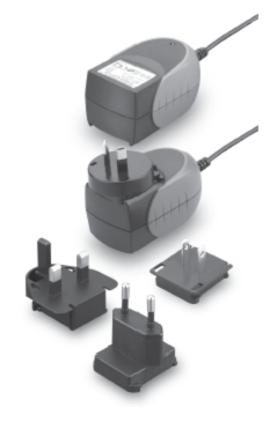
 03: 1800mm
 RD: Red

 11: 7200mm with Ferrite Core
 PE: Purple

 12: 1220mm with Ferrite Core
 OR: Orange

13: 1800mm with Ferrite Core

* 18AWG / UL1185



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
TR15RAM050	5V	2.0A	1%	±3%	±1%	±4%	73%
TR15RAM120	12V	1.1A	1%	±2%	±1%	±2%	82%
TR15RAM150	15V	1.0A	1%	±2%	±1%	±2%	81%
TR15RAM240	24V	625mA	1%	±2%	±1%	±2%	82%

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Inrush Current	. @ 240Vac
Leakage Current	0.1mA max.

OUTPUT SPECIFICATIONS:

Hold-up Time	10ms typ. @115Vac
Temperature Coefficient	±0.05%/°C
Short Circuit Protection	Continuous (Auto Recovery)
Over Voltage Protection	TVS Component to Clamp

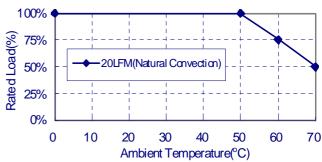
GENERAL CHARACTERISTICS:

Isolation	Input to output = $5,656$ VDC
Switching Frequency	95KHz typical
Operating Temperature	0 - 70°C (see derating curve)
Storage Temperature	20 - 85°C
Cooling	Natural Convection
MTBF MIL-HDBK-217F, GB, at 25	5°C/115VAC 200K hrs min.
Humidity 9	33% RH max. Non condensing
Altitude	3000m
Dimensions 3.173x1.885x1.704lr	nches (80.60x47.90x43.30mm)
Weight	130g(0.29 Pounds)

SAFETY AND EMC:

Emission and Immunity EN55011 Class B, FCC Part 15 Class B EN60601-1-2, EN61000-3-2, EN61000-3-3 Safety IEC60601-1:2005, EN60601-1:2006, ANSI/AAMEI ES60601-1:2005

TR15RAM Series Derating Curve



NOTE:

- 1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
- 2. Voltage setpoint at 60% full load.
- 3. Line regulation measured from 100Vac to 240Vac, full load.
- 4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
- 5. Typical efficiency at 230VAC and full load at 25°C.
- 6. "Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below. If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local represent IMPORTER NAME INPUT AC 100-240V~0,5A 33-44VA, 50-601 tative for details".

Mechanical Specification

