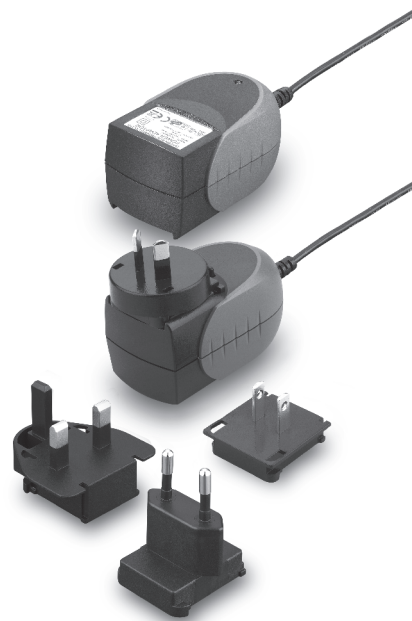


TR15RAM

S E R I E S

15W MEDICAL SWITCHING ADAPTER



Features

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

Ordering information

TR15RAMXXX -	XX	E	XX	-	XX	-	BK
Model No.	DC Plug Type * Please see Page 243 for more detailed descriptions	DC Cable Length and Type 01 : 720mm 02 : 1220mm 03 : 1800mm 11 : 720mm with Ferrite Core 12 : 1220mm with Ferrite Core 13 : 1800mm with Ferrite Core * 18AWG / UL1185			Color of Overmold Case BE : Blue GY : Gray RD : Red PE : Purple OE : Orange		

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	5 V	2.0 A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	73%
TR15RAM120	12 V	1.1 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82%
TR15RAM150	15 V	1.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	81%
TR15RAM240	24 V	625 mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 50A max. @240Vac
 Leakage Current 0.1mA max.

OUTPUT SPECIFICATIONS:

Holdup Time 10ms typ. @115Vac
 Short Circuit Protection Continuous(Auto Recovery)
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

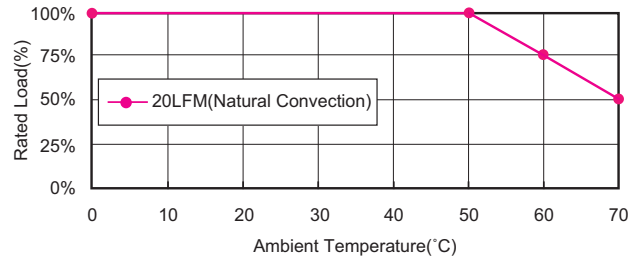
GENERAL SPECIFICATIONS:

Isolation Input to output = 5.656VDC
 Switching Frequency 95KHz Typical
 Operating Temperature $0^{\circ}\text{C}\sim 70^{\circ}\text{C}$ (see derating curve)
 Storage Temperature $-20\sim 85^{\circ}\text{C}$
 Cooling Natural Convection
 MTBF MIL-HDBK-217F, GB, at $25^{\circ}\text{C}/115\text{VAC}$ 200K hrs min.
 Humidity 93% RH max. Non condensing
 Altitude 3000m
 Dimensions 3.173x1.885x1.704 inches (80.60x47.90x43.30 mm)
 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/AAMI ES6060-1:2005

TR15RAM Series Derating Curve



NOTE:

1. Add a 0.1 μF ceramic capacitor and a 10 μF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage setpoint at 60% rated load and 25°C .Ta.
3. Line regulation measured from High Line to low Line with 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 at 230 VAC 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 representative for details".



Mechanical Specification

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

