



TR15RAM SERIES

15W Medical SWITCHING ADAPTER

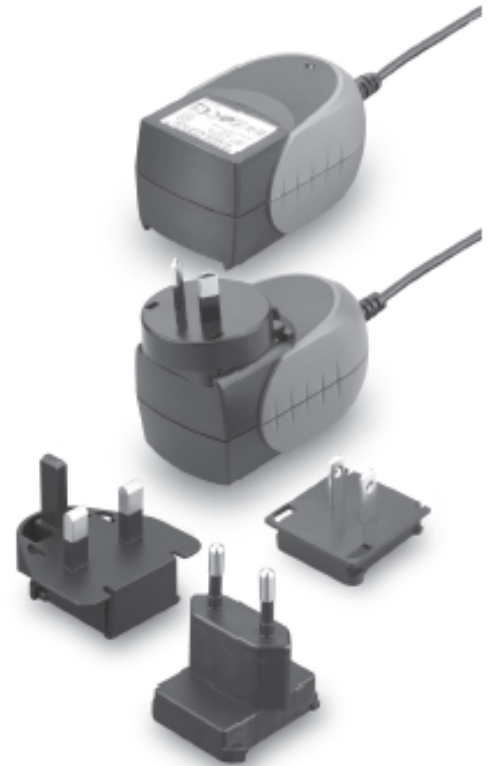


Features

- * 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 $\leq$ 1800mm)
- * Meets 2MOPP

Ordering information

TR15RAMXXX - XX	E XX	-	XX	-BK
Model No.	DC Plug Type	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%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	73%
TR15RAM120	12V	1.1A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82%
TR15RAM150	15V	1.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	81%
TR15RAM240	24V	625mA	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:

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

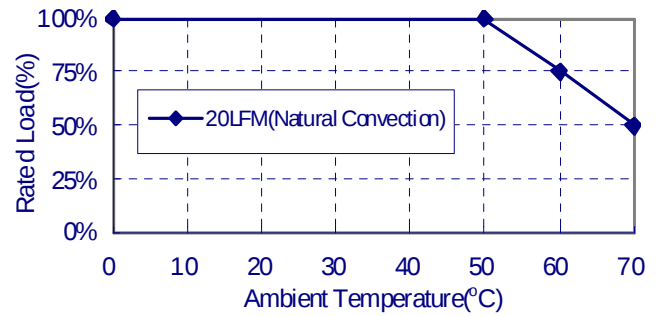
GENERAL CHARACTERISTICS:

Isolation Input to output = 5,656VDC
 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°C/115VAC 200K hrs min.
 Humidity 93% RH max. Non condensing
 Altitude 3000m
 Dimensions 3.173x1.885x1.704Inches (80.60x47.90x43.30mm)
 Weight 130g(0.29 Pounds)

SAFETY AND EMC:

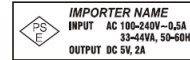
Emission and Immunity EN55011 Class B, FCC Part 15 Class B
 EN60601-1-2, EN61000-3-2, EN61000-3-3
 Safety IEC60601-1:2005, EN60601-1:2006, ANSI/AAMI ES60601-1:2005

TR15RAM Series Derating Curve



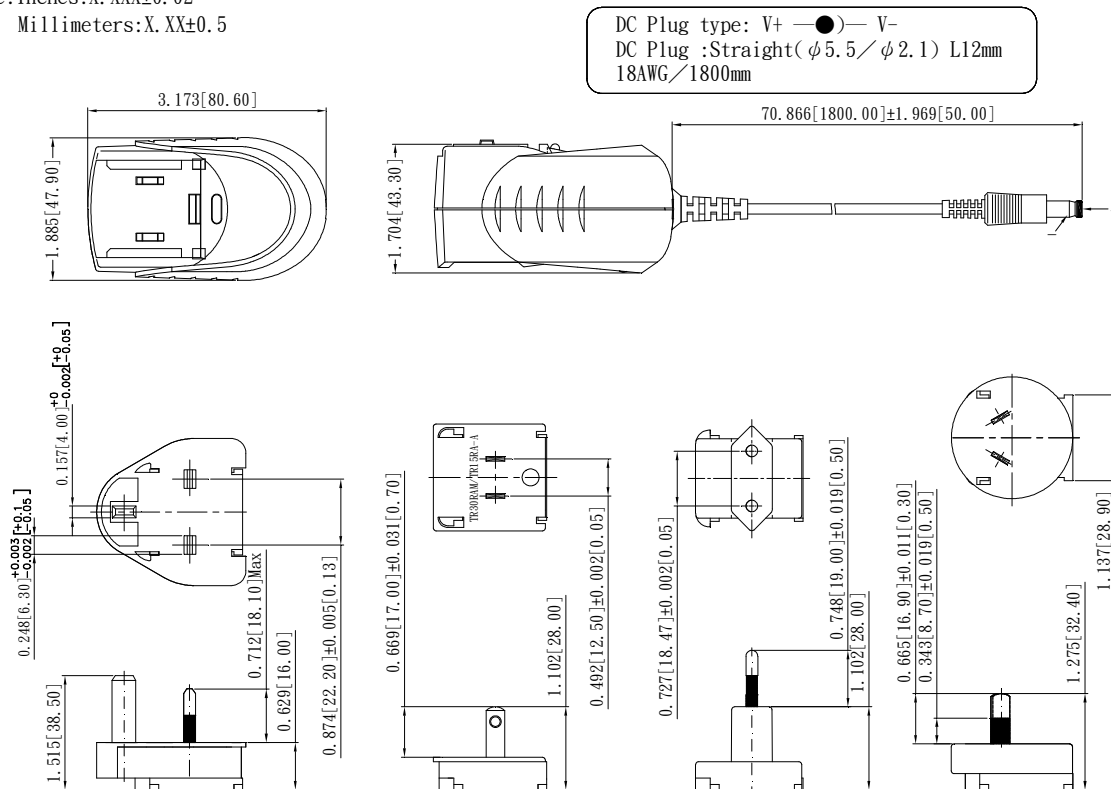
NOTE:

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 representative for details".



Mechanical Specification

All Dimensions are in inches(mm)
 Tolerance: Inches: X.XXX $\pm$ 0.02
 Millimeters: X.XX $\pm$ 0.5



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

Mouser Electronics

Authorized Distributor

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Cincon:

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