



TR18RDM SERIES

18W MEDICAL SWITCHING ADAPTER



Features

- * Universal Input Range 80~264VAC
- * Interchangeable AC Plugs
- * Leakage Current < 30uA
- * Over Voltage Protection
- * Low Leakage Current <50uA
- * Continuous Short Circuit Protection
- * No Load Power Consumption<75mW
- * Approved EN55011, FCC CFR47 Part 18 Class B
- * Approved EN60601-1-11 for Home Healthcare Applications
- * Meet IP22
- * Meets 2MOPP Class II
- * Meets EN60335-1
- * Meet CoC Tier 2 & DoE Level VI
(Output Cable Length ≤ 1800mm)



Ordering information

TR18RDMXXX	-XX	G	XX	-XX-BK
Model No.	DC Plug Type	UL1571 WITH OVP	DC Cable Length and Type	Color of Top Case
			01: 720mm	BK-BK : Black-Black
			02: 1220mm	BE-BK : Blue-Black
			03: 1800mm	
			11: 720mm with Ferrite Core	
			12: 1220mm with Ferrite Core	
			13: 1800mm with Ferrite Core	
			* 18AWG / UL1571 or Equivalent for Vo: 5V	
			* 22AWG / UL1571 or Equivalent for Vo: 9V, 12, 15V, 18V, 24V	

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
TR18RDM050	5 V	3 A	100mVp-p	±5%	±1%	±5%	81.84%
TR18RDM090	9 V	2 A	100mVp-p	±3%	±1%	±3%	85.45%
TR18RDM120	12 V	1.5 A	120mVp-p	±3%	±1%	±2%	85.45%
TR18RDM150	15 V	1.2 A	120mVp-p	±3%	±1%	±2%	85.45%
TR18RDM180	18 V	1 A	120mVp-p	±3%	±1%	±2%	85.45%
TR18RDM240	24 V	0.75 A	120mVp-p	±3%	±1%	±2%	85.45%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage	80~264Vac
Frequency	47 to 63Hz
Input Current	0.5A max.
Inrush Current	Cold start@25°C 45A max. @240Vac
Leakage Current	30uA max.

OUTPUT SPECIFICATIONS:

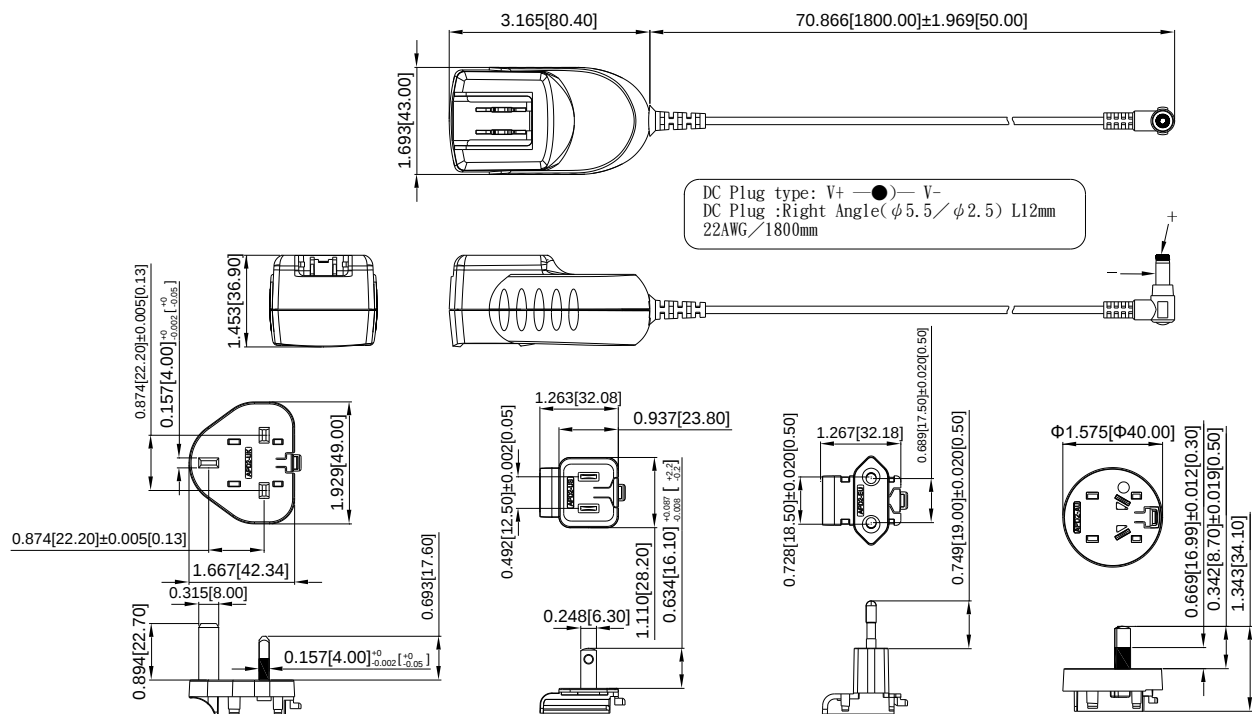
Hold-up Time	12ms typ. @115Vac
Short Circuit Protection	Hiccup Mode Continuous(Auto Recovery)
Over Voltage Protection	TVS Component to Clamp

GENERAL SPECIFICATIONS:

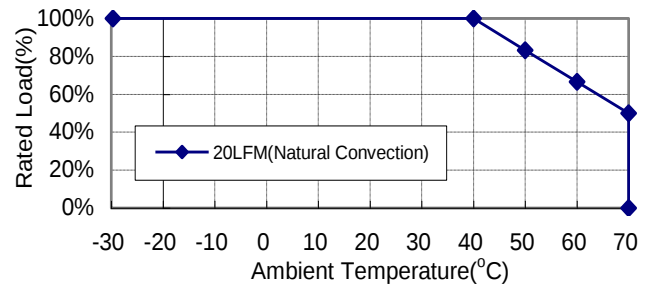
Isolation	Input to output 4,000VAC
Operating Temperature	-30 ~ 70°C (see derating curve)
Storage Temperature	-30~85°C
Humidity	93% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	65KHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC750Khrs min.
Altitude	5000m
Dimensions	3.165x1.693x1.453 inches (80.40x43.00x36.90mm)
Weight	115g(0.253Pounds)

Mechanical Specification

All Dimensions are in inches[mm]
Tolerance:Inches:X.XXX±0.02
Millimeters:X.XX±0.5
UNIT: inches[mm]



TR18RDM Series Derating Curve



SAFETY AND EMC:

Emission and Immunity(Ed4.0)	EN55011 Class B, EN61000-3-2, 3 EN60601-1-2, IEC61000-4-2,4,5,6,8,11 FCC CFR47 Part 18 Class B
Safety (Medical Ed3.1)	IEC 60601-1:2005+A1:2012 EN 60601-1:2006+A11:2011+A1+A12:2013 ANSI/AAMI ES60601-1:2005/A1:2012

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 is measured from 100Vac to 240Vac full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
5. Average Efficiency measured at 25%, 50%, 75%, 100% load and input.

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

Mouser Electronics

Authorized Distributor

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Cincon:

[TR18RDM120-12G03 BK-BK VI](#) [TR18RDM050-01G03 BK-BK VI](#) [TR18RDM240-01G03 BK-BK VI](#) [TR18RDM090-01G03 BK-BK VI](#) [TR18RDM050-12G03 BK-BK VI](#) [TR18RDM150-12G03 BK-BK VI](#) [TR18RDM180-12G03 BK-BK VI](#) [TR18RDM120-01G03 BK-BK VI](#) [TR18RDM240-12G03 BK-BK VI](#) [TR18RDM090-12G03 BK-BK VI](#) [TR18RDM180-01G03 BK-BK VI](#) [TR18RDM150-01G03 BK-BK VI](#)