



# 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  $\leq$  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	$\pm 5\%$	$\pm 1\%$	$\pm 5\%$	81.84%
TR18RDM090	9 V	2 A	100mVp-p	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	85.45%
TR18RDM120	12 V	1.5 A	120mVp-p	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	85.45%
TR18RDM150	15 V	1.2 A	120mVp-p	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	85.45%
TR18RDM180	18 V	1 A	120mVp-p	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	85.45%
TR18RDM240	24 V	0.75 A	120mVp-p	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	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:

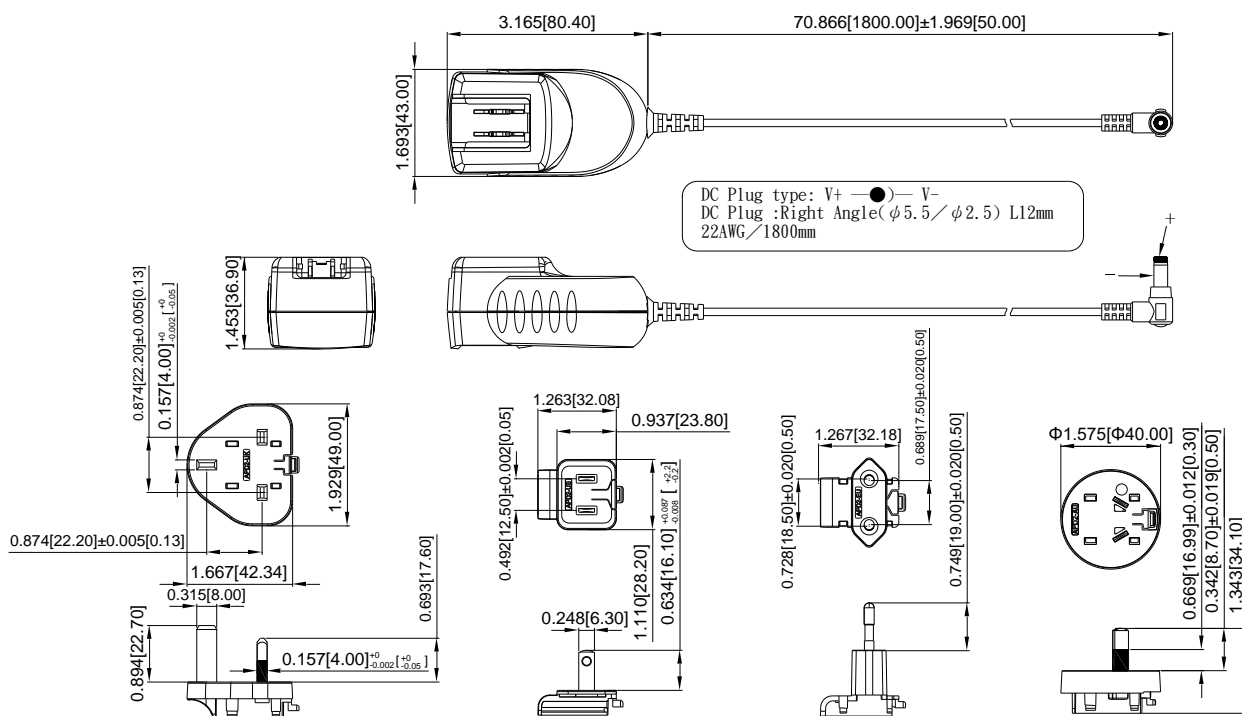
Hold-up Time .....	12ms typ. @115Vac
Short Circuit Protection .....	Hiccup Mode Continuous(Auto Recovery)
Over Voltage Protection .....	TVS Component to Clamp

### 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/115VAC .....750Khrs min.
Altitude .....	5000m
Dimensions .....	3.165x1.693x1.453 inches (80.40x43.00x36.90mm)
Weight .....	115g(0.253Pounds)

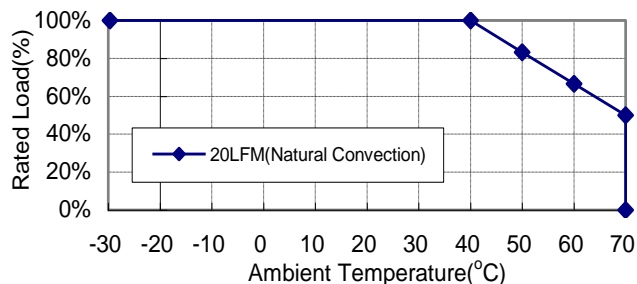
## Mechanical Specification

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



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

## 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.

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