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18W Wall Mount interchangeable Medical power supply > TR18RDM



Features

- * Universal Input Range 80~264VAC
- * Interchangeable AC Plugs
- * Leakage Current < 30uA
- * Over Voltage Protection
- * 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
- * Meets IP22
- * Meets 2MOPP Class II
- * Meets EN60335-1
- * Meets 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 NOET 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.



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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.

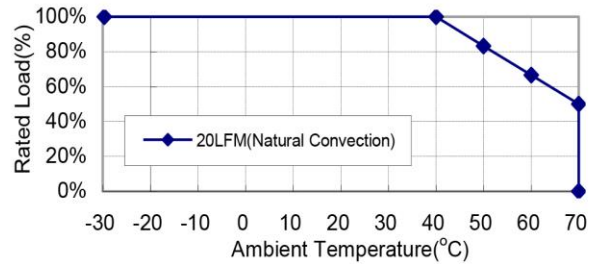
OUTPUT SPECIFICATIONS:

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

TR18RDM Series Derating Curve



SAFETY AND EMC:

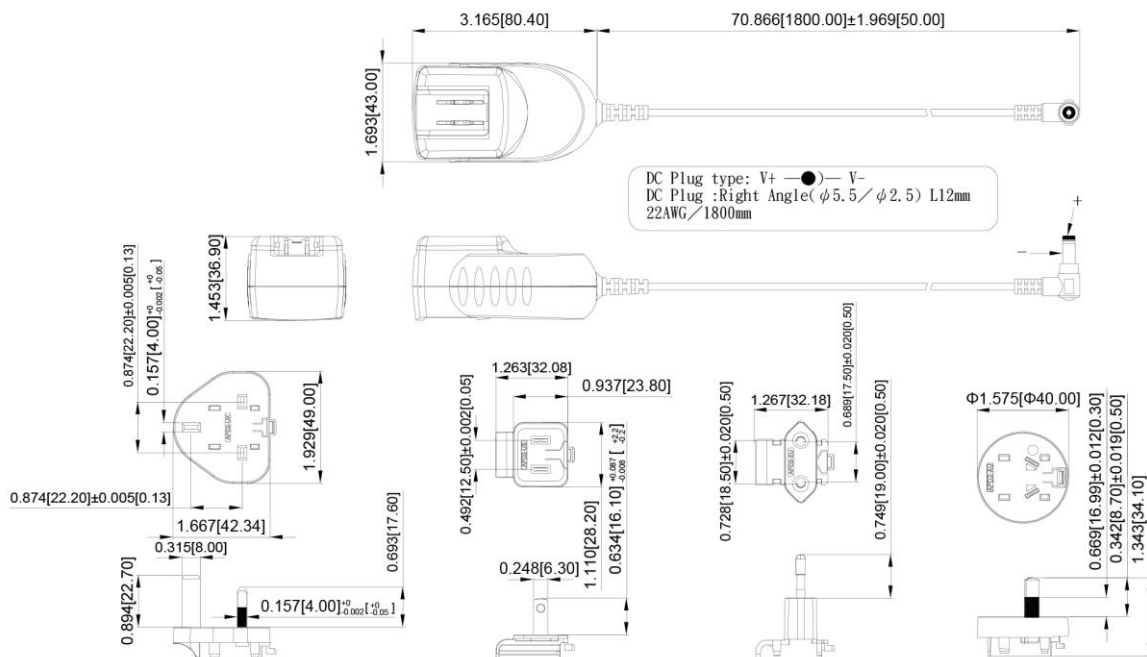
Emission and Immunity(Ed4.0) EN55011 Class B, EN61000-3-2, 3
 EN60601-1-2, IEC61000-4-2,4,5,6,8,11
 FCC CFR47 Part 18 Class B
 Safety (Medical Ed3.1) IEC 60601-1:2005+A1:2012
 EN 60601-1:2006+A11:2011+A1+A12:2013
 ANSI/AAMI ES60601-1:2005/A1:2012

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.

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