

TR3ORAM

S E R I E S

30W MEDICAL SWITCHING ADAPTER



Features

- Universal Input Range 90-264VAC
 - Meets EN60601-1 and EN55011 Class B
 - Continuous Short Circuit Protection
 - Over Voltage Protection
 - Interchangeable AC Plugs
 - CEC Level IV Compliant (Output Cable Length ≤ 1800mm)
- (TR3ORAM050: Output Cable Length ≤ 1500mm)**

Ordering information

Model No.	DC Plug Type	DC Cable Length and Type	Color of Overmold Case
TR3ORAM050	XX	E	XX
TR3ORAM090	XX	E	XX
TR3ORAM120	XX	E	XX
TR3ORAM150	XX	E	XX
TR3ORAM180	XX	E	XX
TR3ORAM240	XX	E	XX

* Please see Page 235 for more detailed descriptions

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	SWITCHING FREQUENCY	%EFF
TR3ORAM050	5V	4.0A	0 A	1%	± 2%	± 1%	± 6%	65kHz Typ.	73% min.
TR3ORAM090	9V	3.0A	0 A	1%	± 2%	± 1%	± 3%	65kHz Typ.	76% min.
TR3ORAM120	12V	2.5A	0 A	1%	± 2%	± 1%	± 2%	65kHz Typ.	79% min.
TR3ORAM150	15V	2.0A	0 A	1%	± 2%	± 1%	± 2%	65kHz Typ.	81% min.
TR3ORAM180	18V	1.67A	0 A	1%	± 2%	± 1%	± 2%	65kHz Typ.	81% min.
TR3ORAM240	24V	1.25A	0 A	1%	± 2%	± 1%	± 2%	65kHz Typ.	83% min.

Specifications

INPUT SPECIFICATIONS:

Voltage 90 – 264Vac
 Frequency 47 to 63Hz
 Input Current 0.4 – 0.8A max.
 Inrush Current 50A max. @ 240Vac
 Conducted EMI CISPR/FCC Class B
 Isolation Input to output > 5.65kVDC
 Leakage Current 100µA max

OUTPUT SPECIFICATIONS:

Holdup Time 10ms typ. @ 115Vac
 Short Circuit Protection Continuous (Auto Recovery)
 Over Voltage Protection Yes

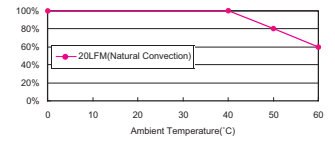
ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature 0 – 40°C
 Storage Temperature -20 – 85°C
 Cooling Natural Convection

MECHANICAL CHARACTERISTICS:

Dimensions 108.67 x 61.98 x 36.70mm (4.270 x 2.440 x 1.445 inches)
 Weight 300g (0.67 Pounds)

TR3ORAM Series Derating Curve

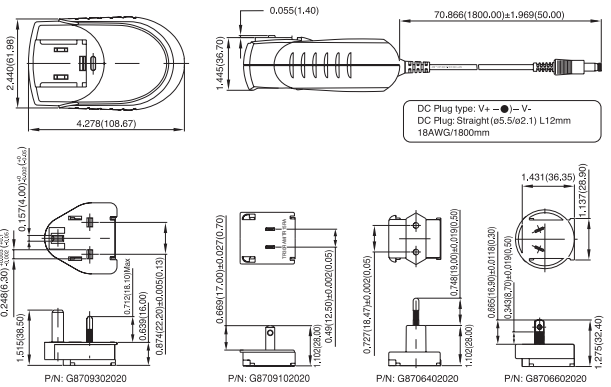


NOTE:

1. Voltage setpoint at 60% load.
2. Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measuring @ 20MHz BW.
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. *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.xxx; ±0.5



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