



TRG30RA V SERIES

30W SWITCHING ADAPTER



Features

- * Universal Input Range 90~264VAC
- * Interchangeable AC Plugs
- * Meets EN61204-3 Class B and CISPR/FCC Class B
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * Meet CoC Tier 2 & DoE Level VI
(Output Cable Length $\leq$ 1800mm)
- * No Load Power Consumption < 75mW

Ordering information

TRG30RAXXXV - 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: 720mm with Ferrite Core		PE: Purple	
		12: 1220mm with Ferrite Core		OE: Orange	
		13: 1800mm with Ferrite Core			
		* 18AWG / UL1185			
		* 16AWG / UL1185 for Vo: 5V, 9V			



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
TRG30RA050V	5 V	4.0 A	50mVp-p	±2%	±1%	±6%	83.69%
TRG30RA090V	9 V	3.0 A	90mVp-p	±2%	±1%	±3%	87.30%
TRG30RA120V	12 V	2.5 A	100mVp-p	±2%	±1%	±2%	87.70%
TRG30RA150V	15 V	2.0 A	100mVp-p	±2%	±1%	±2%	87.70%
TRG30RA180V	18 V	1.67 A	100mVp-p	±2%	±1%	±2%	87.70%
TRG30RA240V	24 V	1.25 A	100mVp-p	±2%	±1%	±2%	87.70%

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Input Current	0.8A max.
Inrush Current	Cold start@25°C 100A max. @240Vac
Leakage Current	0.25mA max

OUTPUT SPECIFICATIONS:

Hold-up Time	10ms typ. @115Vac
Short Circuit Protection	Hiccup Mode Continuous(Auto Recovery)
Over Voltage Protection	Latch

GENERAL SPECIFICATIONS:

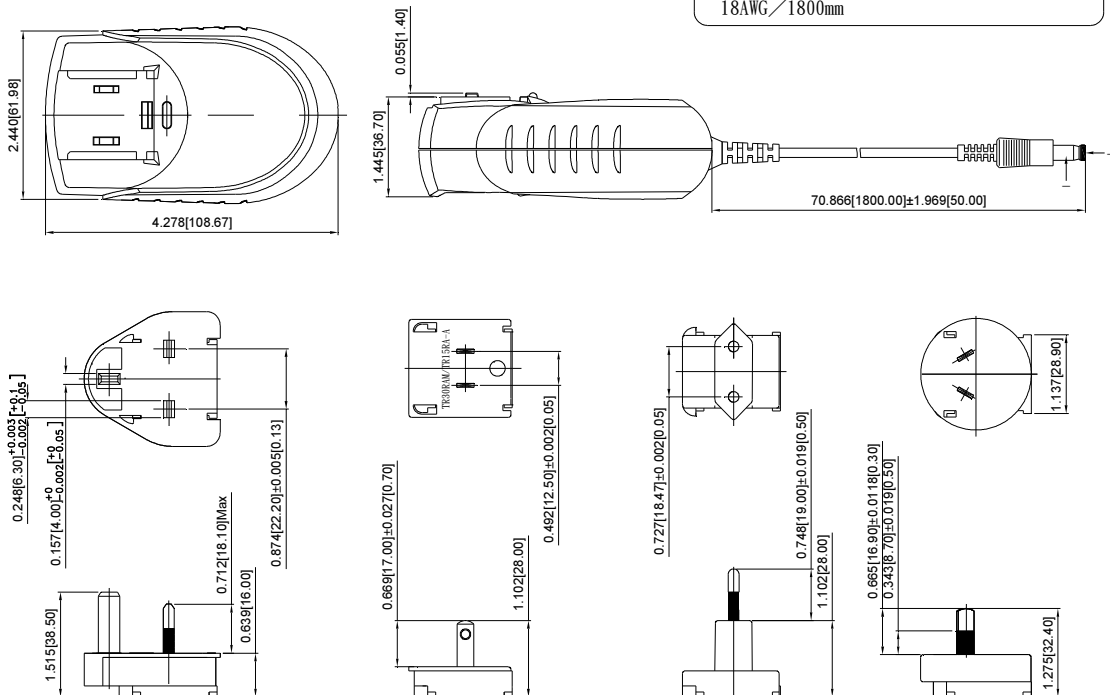
Isolation	Input to output (4,242VDC)
Operating Temperature	-20 ~ 60°C(see derating curve)
Storage Temperature	-20~85°C
Humidity	93% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	70KHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 200Khrs min.
Altitude	5000m
Dimensions	4.278x2.440x1.445 inches (108.67x61.98x36.70mm)
Weight	300g(0.66 Pounds)

SAFETY AND EMC:

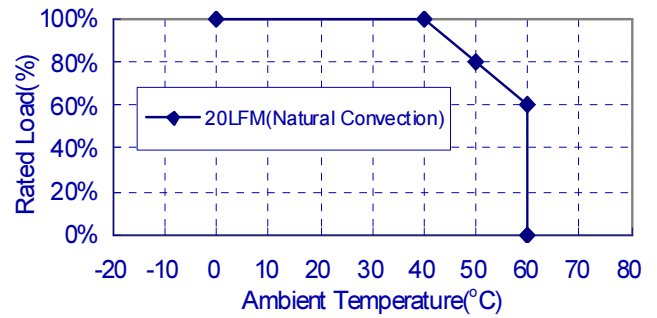
Emission and Immunity	EN61204-3, EN 61000-3-2, EN 61000-3-3 FCC CFR Title 47 Part 15 Subpart B
Safety	Class II, IEC60950-1, UL60950-1, EN60950-1

Mechanical Specification

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



TRG30RA-V 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 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 voltage is 115Vac / 230Vac.

Mouser Electronics

Authorized Distributor

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