



# TRG30R V SERIES 30W AC-DC 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

TRG30RXXXV -XX	E	XX	-XX	-BK
Model No.	DC Plug Type	OVP	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	OR: Orange
			13: 1800mm with Ferrite Core	
			* 18AWG / UL1185	
			* 16AWG / UL1185 for 5V · 9V	



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	AVERAGE EFFICIENCY min. NOTE 5
TRG30R050V	5V	4.0A	50mVp-p	±2%	±1%	±6%	83.69%
TRG30R090V	9V	3.0A	1%	±2%	±1%	±3%	87.30%
TRG30R120V	12V	2.5A	1%	±2%	±1%	±2%	87.70%
TRG30R150V	15V	2.0A	1%	±2%	±1%	±2%	87.70%
TRG30R180V	18V	1.67A	1%	±2%	±1%	±2%	87.70%
TRG30R240V	24V	1.25A	1%	±2%	±1%	±2%	87.70%

Specifications are subject to change without notice.



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## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.8Amax.  
 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 (Auto Recovery)  
 Over Voltage Protection ..... Latch

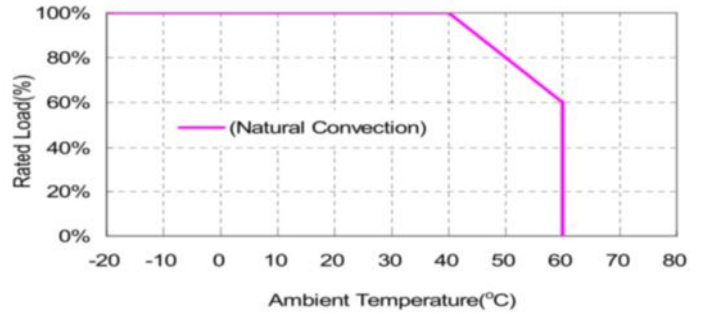
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output ( 4,242VDC)  
 Operating Temperature .....-20 ~ 60°C (see Drating Curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 65KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 200Khrs min.  
 Altitude ..... 5000m  
 Dimensions ..... 4.243x2.267x1.319 inches (107.77x57.60x33.50mm)  
 Weight ..... 300g(0.66 Pounds)

### SAFETY AND EMC:

Emission and Immunity ..... EN61204-3, EN61000-3-2,EN61000-3-3  
 FCC CFR Title 47 Part 15 Subpart B  
 Safety.....Class II, IEC60950-1, UL60950-1, EN60950-1

## TRG30R-V Series Derating Curve

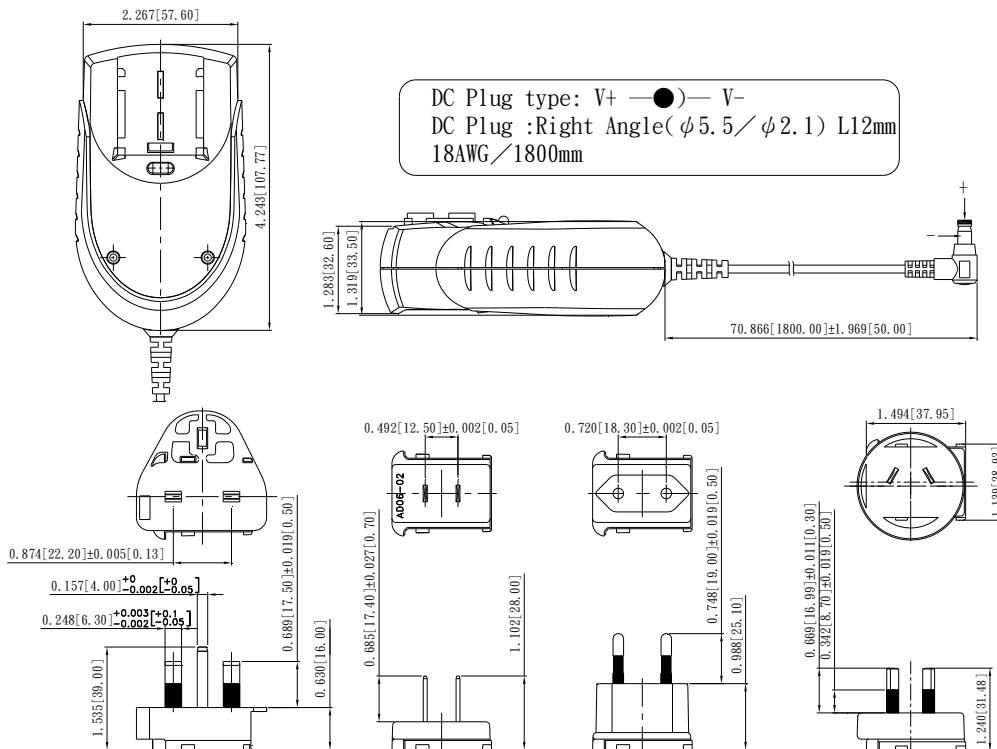


### NOTE:

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 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. Average Efficiency measured at 25%,50%,75%,100% load and input voltage is 115Vac / 230Vac.

### Mechanical Specification

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



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