



E-Star Power Development Co., Ltd. (E-STAR)  
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**30W Travel Power Supply > TRG30RAV**



**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 ≤ 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 are subject to change without notice.



**30W Travel Power Supply > TRG30RAV**

**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:**

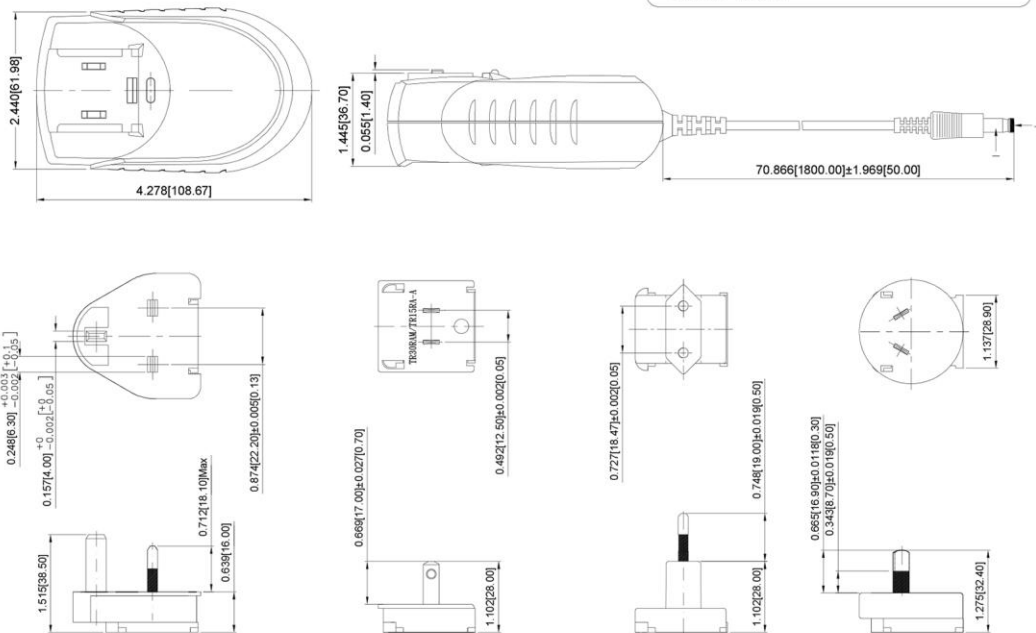
Isolation ..... Input to output (4,242VDC)  
 Operating Temperature ..... -20 ~ 60°C (see drating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 70KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 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

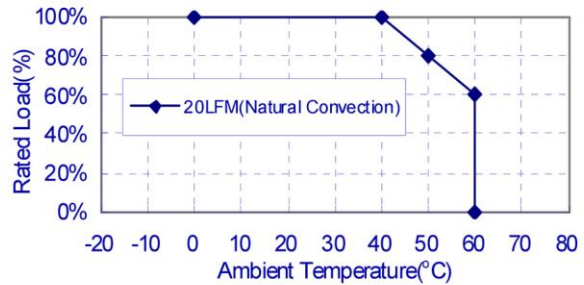
**Mechanical Specification**

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



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

**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.