



# TRG70E VI SERIES

## 70W SWITCHING ADAPTER



### Features

- \* Universal Input Range 90~264VAC
- \* Meets EN55022 Class B and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* No Load Power Consumption < 150mW
- \* Meet CoC Tier 2 & DoE Level VI  
(TRG70E120: Output Cable Length  $\leq$  720mm 16AWG)  
(TRG70E240: Output Cable Length  $\leq$  1800mm 18AWG)

### Ordering information

| TRG70EXXX- XX |              | X                  | XX  |
|---------------|--------------|--------------------|---|
| Model No.     | DC Plug Type | OVP<br>E: With OVP | DC Cable Length and Type<br>01: 720mm<br>02: 1220mm<br>03: 1800mm<br>11: 720mm with Ferrite Core<br>12: 1220mm with Ferrite Core<br>13: 1800mm with Ferrite Core<br>*18AWG/UL1185 |



| MODEL     | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE<br>NOTE 2 | VOLTAGE ACCURACY<br>NOTE 1 | LINE REGULATION<br>NOTE 3 | LOAD REGULATION<br>NOTE 4 | EFFICIENCY (typ.)<br>NOTE 5 |
|-----------|----------------|----------------|--------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|
| TRG70E120 | 12 V           | 5.5 A          | 1%                       | $\pm 2\%$                  | $\pm 1\%$                 | $\pm 5\%$                 | 89%                         |
| TRG70E240 | 24 V           | 3.0 A          | 1%                       | $\pm 2\%$                  | $\pm 1\%$                 | $\pm 2\%$                 | 89%                         |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... Cold Start @25°C 80A max. @240Vac  
 Conducted EMI ..... CISPR/FCC Class B  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time ..... 8ms typ. @115Vac  
 Short Circuit Protection ..... Continuous  
 Over Voltage Protection ..... Yes  
 Temperature Coefficient ..... ±0.05%/°C

### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... -20 ~ 70°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 60KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 200Khrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 5.197x2.283x1.201 inches (132.00x58.00x30.50 mm)  
 Weight ..... 345g(0.76 Pounds)  
 AC Inlet ..... IEC320/C8

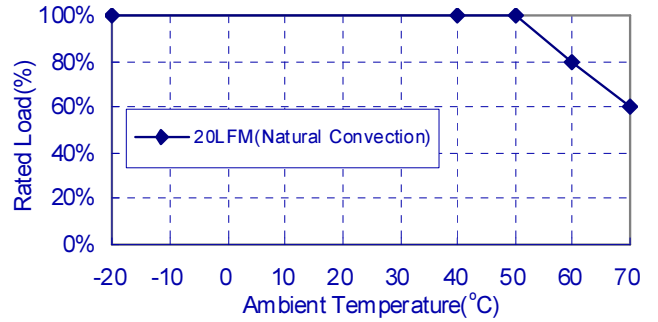
### SAFETY AND EMC:

Emission and Immunity ..... EN55022 Class B, FCC Part 15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

## Mechanical Specification

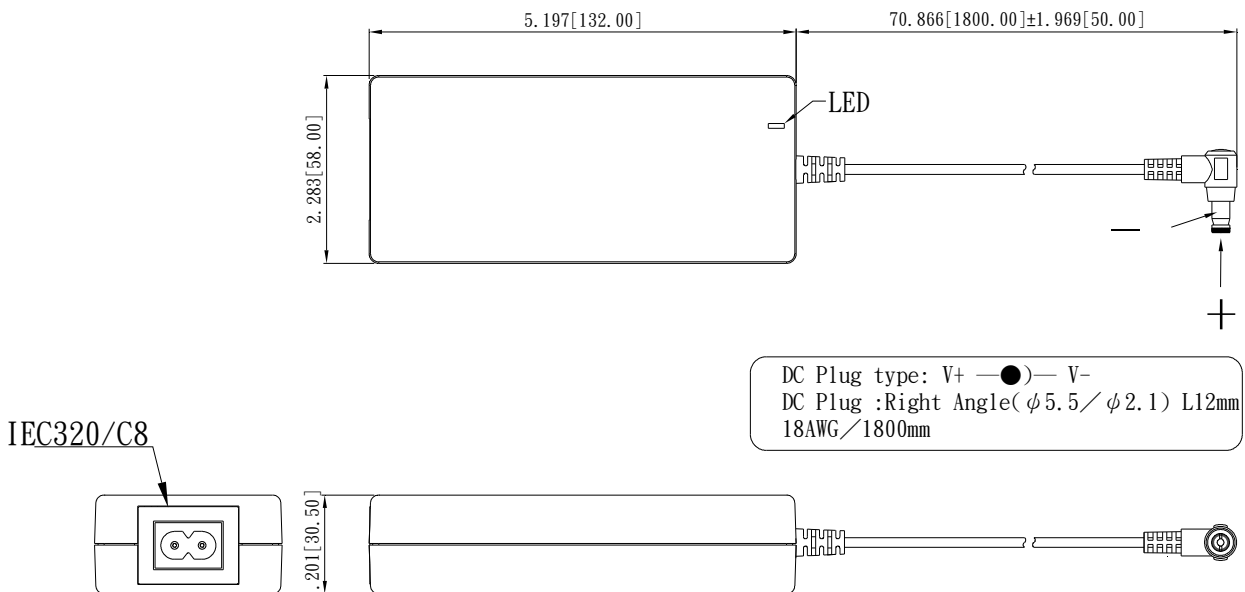
All Dimensions are in inches(mm)  
 Tolerance: Inches: X.XXX±0.02  
 Millimeters: X.XX±0.5

## TRG70E Series Derating Curve



### NOTE:

1. Voltage accuracy at 60% full load
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac, full load.
4. Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load).
5. Typical efficiency at 230VAC and 75% load at 25°C.



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