



# TRG36 SERIES

## 36W SWITCHING ADAPTER



### Features

- \* Universal Input Range 90-264VAC
- \* Meets EN55032 Class "B" and CISPR/FCC Class B, Conducted
- \* Continuous Short Circuit Protection
- \* Leakage Current 0.25mA Max.
- \* Over Voltage Protection
- \* No Load Power Consumption < 75mW
- \* Approved IEC/EN/UL62368-1
- \* Meet CoC V5 Tier 2 & DoE Level VI
- \* (Output cable length  $\leq$  1800mm)  
(TRG36A09: Output Cable Length  $\leq$  1220mm)  
(TRG36A05: Output Cable Length  $\leq$  720mm  
18AWG/UL2464)

### Ordering information

| TRG36AXX- | XX           | E        | XX                           |
|-----------|--------------|----------|------------------------------|
| Model No. | DC Plug Type | With OVP | DC Cable Length and Type     |
|           |              |          | 01: 720mm                    |
|           |              |          | 02: 1220mm                   |
|           |              |          | 03: 1800mm                   |
|           |              |          | 11: 720mm with Ferrite Core  |
|           |              |          | 12: 1220mm with Ferrite Core |
|           |              |          | 13: 1800mm with Ferrite Core |
|           |              |          | *18AWG/UL1185                |



| MODEL    | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE<br>NOTE 1 | VOLTAGE REGULATION<br>NOTE 2 | LINE REGULATION<br>NOTE 3 | LOAD REGULATION<br>NOTE 4 | AVG. EFF. |
|----------|----------------|----------------|--------------------------|------------------------------|---------------------------|---------------------------|-----------|
| TRG36A05 | 5V             | 4.0A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 6\%$                 | 83.69%    |
| TRG36A09 | 9V             | 3.0A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 5\%$                 | 87.30%    |
| TRG36A12 | 12V            | 2.5A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 5\%$                 | 87.70%    |
| TRG36A13 | 13.5V          | 2.4A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 5\%$                 | 87.97%    |
| TRG36A15 | 15V            | 2.4A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 3\%$                 | 88.31%    |
| TRG36A18 | 18V            | 2.0A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 2\%$                 | 88.31%    |
| TRG36A24 | 24V            | 1.5A           | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 2\%$                 | 88.31%    |
| TRG36A48 | 48V            | 0.75A          | 1%                       | $\pm 2\%$                    | $\pm 1\%$                 | $\pm 2\%$                 | 88.31%    |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 50 to 60Hz  
 Inrush Current ..... 60A max. @240Vac  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time ..... 8ms typ. @115Vac  
 Short Circuit Protection ..... Continuous(Auto Recover)  
 Over Voltage Protection .....TVS Component to Clamp  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

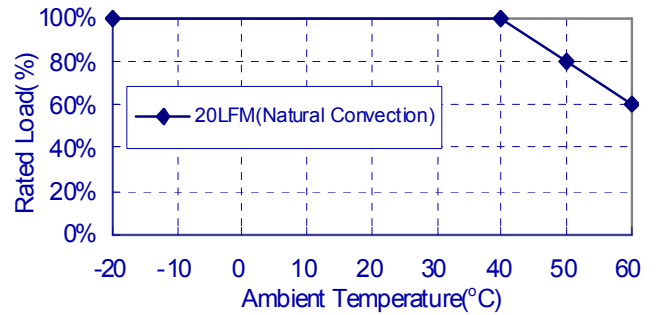
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature .....  $-20 \sim 60^{\circ}\text{C}$  (see derating curve)  
 Storage Temperature .....  $-20 \sim 85^{\circ}\text{C}$   
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 67KHz typ.  
 MTBF ..... MIL-HDBK-217F, GB, at  $25^{\circ}\text{C}/115\text{VAC}$  ..... 200Khrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 4.370x2.008x0.886 inches (111.00x51.00x22.50mm)  
 Weight ..... 190g(0.42 Pounds)  
 AC Inlet ..... IEC320/C8

### SAFETY AND EMC:

Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B  
 ..... EN61000-6-3, EN61000-3-2, EN61000-3-3  
 ..... EN55024, EN61204-3, EN61000-6-1  
 Safety ..... Class II, IEC/EN/UL62368-1/60950-1

## TRG36 Series Derating Curve



### NOTE:

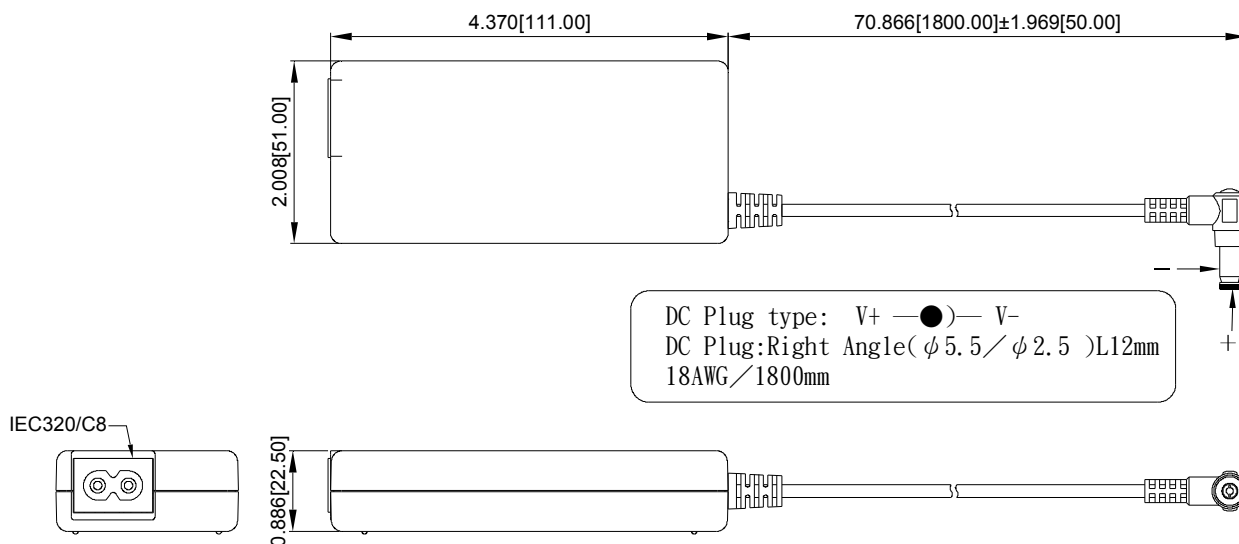
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage setpoint at 60% load.
3. Line regulation is measured from 100Vac to 240Vac full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load).

## Mechanical Specification

All Dimensions are in inches(mm)

Tolerance:Inches:X.XXX $\pm$ 0.02

Millimeters:X.XX $\pm$ 0.5



Typical at  $25^{\circ}\text{C}$ , nominal line and 75% load, unless otherwise Specified

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