



# TRG500V SERIES

## 6W SWITCHING ADAPTER

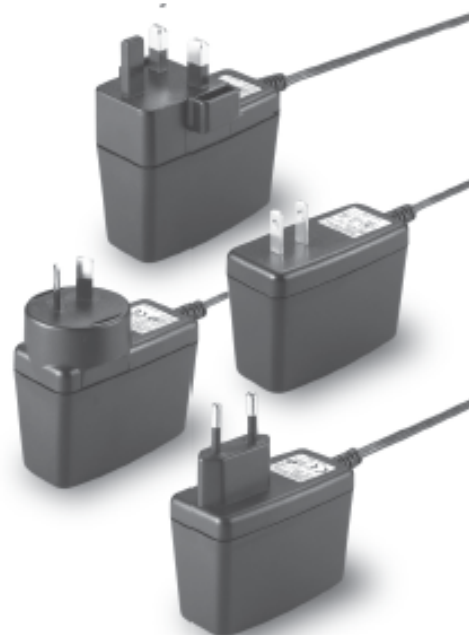


### Features

- \* Universal Input Range 90~264VAC
- \* Meets EN55022 Class B and CISPR/FCC Class B, Conducted
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* Meet CEC & ErP Level V  
(Output Cable Length  $\leq$  1800mm)

### Ordering information

| TRG5XX -  | X                  | -            | XX          | X                            | XX |
|-----------|--------------------|--------------|-------------|------------------------------|----|
| Model No. | AC Plug Type       | DC Plug Type | OVP         | DC Cable Length and Type     |    |
|           | A: USA 2 Pin       |              | E: With OVP | 01: 720mm                    |    |
|           | E: Europe 2 Pin    |              |             | 02: 1220mm                   |    |
|           | U: British 3 Pin   |              |             | 03: 1800mm                   |    |
|           | S: Australia 2 Pin |              |             | 11: 720mm with Ferrite Core  |    |
|           |                    |              |             | 12: 1220mm with Ferrite Core |    |
|           |                    |              |             | 13: 1800mm with Ferrite Core |    |
|           |                    |              |             | * 20AWG / UL2468             |    |



| 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 | % EFF. (Typ.)<br>NOTE 5 |
|------------|----------------|----------------|--------------------------|----------------------------|---------------------------|---------------------------|-------------------------|
| TRG501-15V | 15V            | 400mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 2\%$                 | 68%                     |
| TRG501V    | 12V            | 500mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 2\%$                 | 68%                     |
| TRG502V    | 10V            | 600mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 2\%$                 | 68%                     |
| TRG503V    | 9V             | 650mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 2\%$                 | 68%                     |
| TRG506V    | 8V             | 650mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 3\%$                 | 67%                     |
| TRG507V    | 7.5V           | 650mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 3\%$                 | 67%                     |
| TRG508V    | 7.0V           | 650mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 3\%$                 | 67%                     |
| TRG510V    | 6.5V           | 650mA          | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 3\%$                 | 67%                     |
| TRG511-1V  | 6.0V           | 1000mA         | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 4\%$                 | 67%                     |
| TRG513-1V  | 5.0V           | 1200mA         | 1%                       | $\pm 3\%$                  | $\pm 1\%$                 | $\pm 4\%$                 | 66%                     |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 50 to 60Hz  
 Input Current ..... 0.5A max.  
 Inrush Current ..... Cold Start @25°C 50A max. @240Vac  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Continuous(Auto Recovery)  
 Over Voltage Protection ..... Yes  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

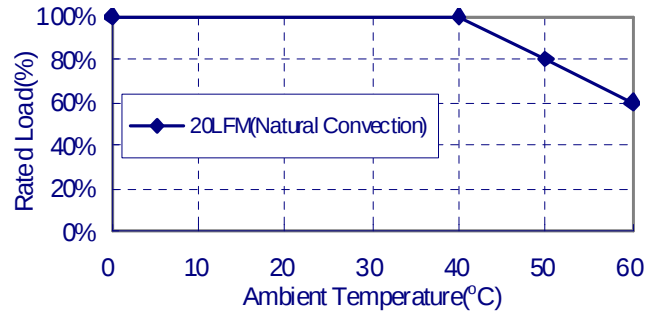
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0 ~ 60°C (see derating curve)  
 Storage Temperature ..... -20 ~ 85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 87KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.835x2.047x1.378inches (72.00x52.00x35.00mm)  
 Weight ..... 135g (0.30Pounds)

### 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

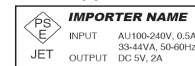
## TRG500V Series Derating Curve



### NOTE:

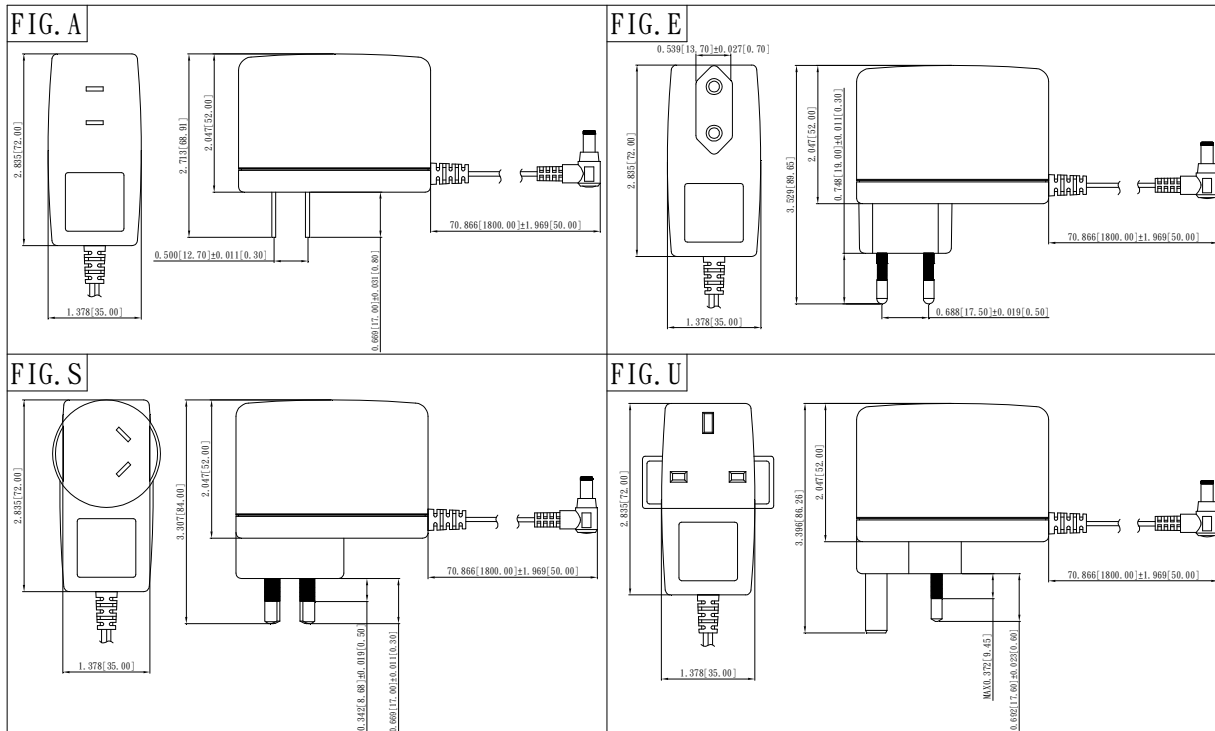
1. Voltage accuracy at 60% full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
3. Line regulation measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to full load and from 60% to 20% full load (60% +/- 40% full load).
5. Typical efficiency at 230VAC and full load at 25°C.
6. "Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below.

If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local representative for details"



## Mechanical Specification

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



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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Cincon:

[TRG501-15V-A-11E03](#) [TRG501-15V-A-12E03](#) [TRG501V-A-11E03](#) [TRG501V-A-12E03](#) [TRG501V-E-11E03](#)  
[TRG501V-E-12E03](#) [TRG501V-S-11E03](#) [TRG501V-S-12E03](#) [TRG501V-U-11E03](#) [TRG501V-U-12E03](#) [TRG502V-A-](#)  
[11E03](#) [TRG502V-A-12E03](#) [TRG502V-E-11E03](#) [TRG502V-E-12E03](#) [TRG502V-S-11E03](#) [TRG502V-S-12E03](#)  
[TRG502V-U-11E03](#) [TRG502V-U-12E03](#) [TRG503V-A-11E03](#) [TRG503V-A-12E03](#) [TRG503V-E-11E03](#) [TRG503V-E-](#)  
[12E03](#) [TRG503V-S-11E03](#) [TRG503V-S-12E03](#) [TRG503V-U-11E03](#) [TRG503V-U-12E03](#) [TRG506V-A-11E03](#)  
[TRG506V-A-12E03](#) [TRG506V-E-11E03](#) [TRG506V-E-12E03](#) [TRG506V-S-11E03](#) [TRG506V-S-12E03](#) [TRG506V-U-](#)  
[11E03](#) [TRG506V-U-12E03](#) [TRG507V-A-11E03](#) [TRG507V-A-12E03](#) [TRG507V-E-11E03](#) [TRG507V-E-12E03](#)  
[TRG507V-S-11E03](#) [TRG507V-S-12E03](#) [TRG507V-U-11E03](#) [TRG507V-U-12E03](#) [TRG508V-A-11E03](#) [TRG508V-A-](#)  
[12E03](#) [TRG508V-E-11E03](#) [TRG508V-E-12E03](#) [TRG508V-S-11E03](#) [TRG508V-S-12E03](#) [TRG508V-U-11E03](#)  
[TRG508V-U-12E03](#) [TRG510V-A-11E03](#) [TRG510V-A-12E03](#) [TRG510V-E-11E03](#) [TRG510V-E-12E03](#) [TRG510V-S-](#)  
[11E03](#) [TRG510V-S-12E03](#) [TRG510V-U-11E03](#) [TRG510V-U-12E03](#) [TRG511-1V-A-11E03](#) [TRG511-1V-A-12E03](#)  
[TRG511-1V-E-11E03](#) [TRG511-1V-E-12E03](#) [TRG511-1V-S-11E03](#) [TRG511-1V-S-12E03](#) [TRG511-1V-U-11E03](#)  
[TRG511-1V-U-12E03](#) [TRG513-1V-A-11E03](#) [TRG513-1V-A-12E03](#) [TRG513-1V-E-11E03](#) [TRG513-1V-E-12E03](#)  
[TRG513-1V-S-11E03](#) [TRG513-1V-S-12E03](#) [TRG513-1V-U-11E03](#) [TRG513-1V-U-12E03](#) [TRG501-15V-A-01E03](#)  
[TRG501-15V-A-02E03](#) [TRG501V-A-01E03](#) [TRG501V-A-02E03](#) [TRG501V-E-01E03](#) [TRG501V-E-02E03](#) [TRG501V-S-](#)  
[01E03](#) [TRG501V-S-02E03](#) [TRG501V-U-01E03](#) [TRG501V-U-02E03](#) [TRG502V-A-01E03](#) [TRG502V-A-02E03](#)  
[TRG502V-E-01E03](#) [TRG502V-E-02E03](#) [TRG502V-S-01E03](#) [TRG502V-S-02E03](#) [TRG502V-U-01E03](#) [TRG502V-U-](#)  
[02E03](#) [TRG503V-A-01E03](#) [TRG503V-A-02E03](#) [TRG503V-E-01E03](#) [TRG503V-E-02E03](#) [TRG503V-S-01E03](#)  
[TRG503V-S-02E03](#) [TRG503V-U-01E03](#) [TRG503V-U-02E03](#)