



# TRG25 SERIES

## 25W SWITCHING ADAPTER



### Features

- \* Universal Input: 90-264Vac
- \* Meets EMI Meets EN55022 Class "B" and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* Meet CEC & ErP Level V  
(Output Cable Length  $\leq$  1800mm)  
(TRG25033: Output Cable Length  $\leq$  720mm)  
(TRG25050: Output Cable Length  $\leq$  1220mm)



### Ordering information

| TRG25XXX  | - 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   |
|           |                    |              |             | * 18AWG / UL1185               |
|           |                    |              |             | * 16AWG / UL1185 for Vo5V,3.3V |



| MODEL    | OUTPUT VOLTAGE | MIN. LOAD | MAX. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | (%)EFF. (Typ) |
|----------|----------------|-----------|-----------|----------------|------------------|-----------------|-----------------|---------------|
| TRG25033 | 3.3V           | 0A        | 4.0A      | 50mV           | $\pm 2\%$        | $\pm 1\%$       | $\pm 6\%$       | 72%           |
| TRG25050 | 5V             | 0A        | 4.0A      | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 6\%$       | 75%           |
| TRG25090 | 9V             | 0A        | 2.5A      | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 76%           |
| TRG25120 | 12V            | 0A        | 2.1A      | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 5\%$       | 81%           |
| TRG25150 | 15V            | 0A        | 1.67A     | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 3\%$       | 82%           |
| TRG25180 | 18V            | 0A        | 1.4A      | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 82%           |
| TRG25240 | 24V            | 0A        | 1.05A     | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 84%           |

## Specifications

### INPUT SPECIFICATIONS:

|                       |                   |
|-----------------------|-------------------|
| Voltage .....         | 90~264Vac         |
| Frequency .....       | 47 to 63Hz        |
| Inrush Current .....  | 0.7A max.         |
| Inrush Current .....  | 50A max. @240Vac  |
| Conducted EMI .....   | CISPR/FCC Class B |
| Leakage Current ..... | 0.25mA max.       |

### OUTPUT SPECIFICATIONS:

|                                |                           |
|--------------------------------|---------------------------|
| Holdup Time .....              | 10ms typ. @115Vac         |
| Short Circuit Protection ..... | Continuous(Auto Recovery) |
| Over Voltage Protection .....  | TVS Component to Clamp    |
| Temperature Coefficient .....  | ±0.05%/°C                 |

### GENERAL SPECIFICATIONS:

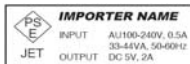
|                             |                                              |
|-----------------------------|----------------------------------------------|
| Isolation .....             | Input to output = 4,242VDC                   |
| Operating Temperature ..... | 0 ~ 60°C (see derating curve)                |
| Storage Temperature .....   | -20~85°C                                     |
| Humidity .....              | 93% RH max. Non condensing                   |
| Cooling .....               | Natural Convection                           |
| Switching Frequency .....   | 65KHz Typical                                |
| MTBF .....                  | MIL-HDBK-217F, GB, 25°C/115VAC 300K hrs min. |
| Altitude .....              | 2000m                                        |
| Dimensions .....            | 3.169x1.932x2.205Inches (80.5x49.06x56.00mm) |
| Weight .....                | 280g(0.62 Pounds)                            |

### SAFETY AND EMC:

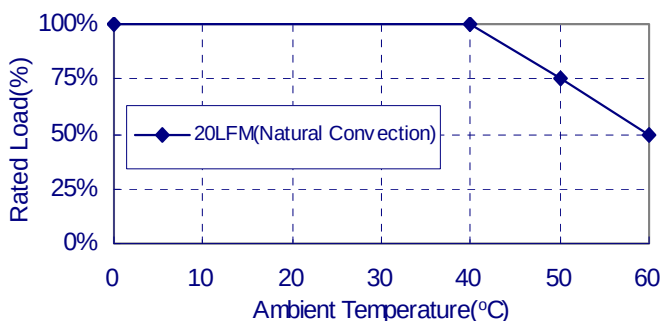
|                             |                                       |
|-----------------------------|---------------------------------------|
| Emission and Immunity ..... | EN55022 Class B, FCC Part 15 Class B  |
|                             | EN61000-6-3, EN61000-3-2, EN61000-3-3 |
|           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

### NOTE:

1. Voltage setpoint at 60% full load
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation 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)
5. "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"



### TRG25 Series Derating Curve



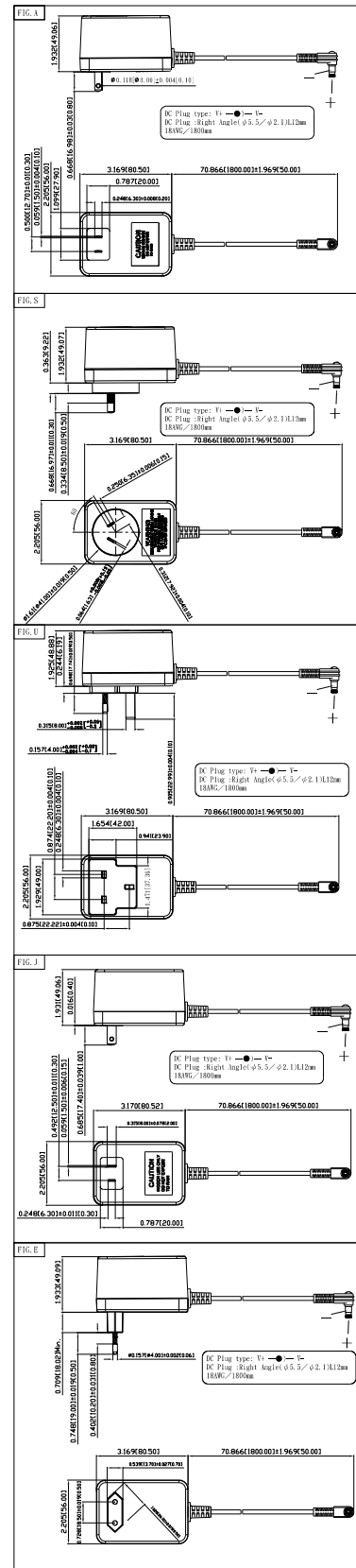
Typical at 25°C, nominal line and 75% load, unless otherwise Specified

## Mechanical Specification

All Dimensions are in inches(mm)

Tolerance: Inches: X, XXX±0.02

Millimeters: X, XX±0.5



# Mouser Electronics

Authorized Distributor

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

## Cincon:

[TRG250120-A-11E03-Level-V](#) [TRG250120-A-12E03-Level-V](#) [TRG250150-A-11E03-Level-V](#) [TRG250150-A-12E03-Level-V](#) [TRG250180-A-11E03-Level-V](#) [TRG250180-A-12E03-Level-V](#) [TRG250240-A-11E03-Level-V](#) [TRG250240-A-12E03-Level-V](#) [TRG25050-A-11E02-Level-V](#) [TRG25050-A-12E02-Level-V](#) [TRG250120-A-35E03-Level-V](#) [TRG250120-A-36E03-Level-V](#) [TRG250120-A-39E03-Level-V](#) [TRG250120-A-40E03-Level-V](#) [TRG250120-A-48E03-Level-V](#) [TRG250120-A-49E03-Level-V](#) [TRG250240-A-35E03-Level-V](#) [TRG250240-A-36E03-Level-V](#) [TRG250240-A-39E03-Level-V](#) [TRG250240-A-40E03-Level-V](#) [TRG250240-A-48E03-Level-V](#) [TRG250240-A-49E03-Level-V](#) [TRG25033-A-35E01-Level-V](#) [TRG25033-A-36E01-Level-V](#) [TRG25033-A-39E01-Level-V](#) [TRG25033-A-40E01-Level-V](#) [TRG25033-A-48E01-Level-V](#) [TRG25033-A-49E01-Level-V](#) [TRG25050-A-35E02-Level-V](#) [TRG25050-A-36E02-Level-V](#) [TRG25050-A-39E02-Level-V](#) [TRG25050-A-40E02-Level-V](#) [TRG25050-A-48E02-Level-V](#) [TRG25050-A-49E02-Level-V](#) [TRG250120-E-11E03-Level-V](#) [TRG250120-E-12E03-Level-V](#) [TRG250120-S-11E03-Level-V](#) [TRG250120-S-12E03-Level-V](#) [TRG250120-U-11E03-Level-V](#) [TRG250120-U-12E03-Level-V](#) [TRG250150-E-11E03-Level-V](#) [TRG250150-E-12E03-Level-V](#) [TRG250150-S-11E03-Level-V](#) [TRG250150-S-12E03-Level-V](#) [TRG250150-U-11E03-Level-V](#) [TRG250150-U-12E03-Level-V](#) [TRG250180-E-11E03-Level-V](#) [TRG250180-E-12E03-Level-V](#) [TRG250180-S-11E03-Level-V](#) [TRG250180-S-12E03-Level-V](#) [TRG250180-U-11E03-Level-V](#) [TRG250180-U-12E03-Level-V](#) [TRG250240-E-11E03-Level-V](#) [TRG250240-E-12E03-Level-V](#) [TRG250240-S-11E03-Level-V](#) [TRG250240-S-12E03-Level-V](#) [TRG250240-U-11E03-Level-V](#) [TRG250240-U-12E03-Level-V](#) [TRG25033-A-11E01-Level-V](#) [TRG25033-E-11E01-Level-V](#) [TRG25033-E-12E01-Level-V](#) [TRG25033-S-11E01-Level-V](#) [TRG25033-S-12E01-Level-V](#) [TRG25033-U-11E01-Level-V](#) [TRG25033-U-12E01-Level-V](#) [TRG25050-E-11E02-Level-V](#) [TRG25050-E-12E02-Level-V](#) [TRG25050-S-11E02-Level-V](#) [TRG25050-S-12E02-Level-V](#) [TRG25050-U-11E02-Level-V](#) [TRG25050-U-12E02-Level-V](#) [TRG25033-A-12E01-LEVEL-V](#) [TRG250120-A-01E03-Level-V](#) [TRG250120-A-02E03-Level-V](#) [TRG250120-E-01E03-Level-V](#) [TRG250120-E-02E03-Level-V](#) [TRG250120-S-01E03-Level-V](#) [TRG250120-S-02E03-Level-V](#) [TRG250120-U-01E03-Level-V](#) [TRG250120-U-02E03-Level-V](#) [TRG250150-A-01E03-Level-V](#) [TRG250150-A-02E03-Level-V](#) [TRG250150-E-01E03-Level-V](#) [TRG250150-E-02E03-Level-V](#) [TRG250150-S-01E03-Level-V](#) [TRG250150-S-02E03-Level-V](#) [TRG250150-U-01E03-Level-V](#) [TRG250150-U-02E03-Level-V](#) [TRG250180-A-01E03-Level-V](#) [TRG250180-A-02E03-Level-V](#) [TRG250180-E-01E03-Level-V](#) [TRG250180-E-02E03-Level-V](#) [TRG250180-S-01E03-Level-V](#) [TRG250180-S-02E03-Level-V](#) [TRG250180-U-01E03-Level-V](#) [TRG250180-U-02E03-Level-V](#) [TRG250240-A-01E03-Level-V](#) [TRG250240-A-02E03-Level-V](#) [TRG250240-E-01E03-Level-V](#) [TRG250240-E-02E03-Level-V](#)