



# TRG100A SERIES

## 100W SWITCHING

## ADAPTER WITH PFC



### Features

- \* Universal Input Range: 90-264VAC
  - \* Active PFC Meets EN61000-3-2
  - \* Conductive EMI Meets CISPR/FCC Class B
  - \* Continuous Short Circuit Protection
  - \* Over Voltage Protection
- Meet CEC & Erp Level V
- (Output Cable Length  $\leq$  1800mm)
- (TRG100A120~150: Output Cable Length  $\leq$  1220mm)
- (TRG100A180~540: Output Cable Length  $\leq$  1800mm)



### Ordering information

| TRG100Axxx- xx | X            | XX                               |
|----------------|--------------|----------------------------------|
| Model No.      | DC Plug Type | DC Cable Length and Type         |
|                | OVP          |                                  |
|                | E: WITH OVP  | 11: 720mm with Ferrite Core      |
|                |              | 12: 1200mm with Ferrite Core     |
|                |              | 13: 1800mm with Ferrite Core     |
|                |              | 21: 720mm with two Ferrite Core  |
|                |              | 22: 1200mm with two Ferrite Core |
|                |              | 23: 1800mm with two Ferrite Core |
|                |              | *16AWG/UL2464                    |

| MODEL      | OUTPUT VOLTAGE | MIN. LOAD | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE SETPOINT | LINE REGULATION | LOAD REGULATION | % EFF.. (Typ) |
|------------|----------------|-----------|----------------|----------------|------------------|-----------------|-----------------|---------------|
| TRG100A120 | 12V            | 0 A       | 8.34A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 4\%$       | 87%           |
| TRG100A125 | 12.5V          | 0 A       | 8.00A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 4\%$       | 87%           |
| TRG100A135 | 13.5V          | 0 A       | 7.33A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 4\%$       | 87%           |
| TRG100A150 | 15V            | 0 A       | 6.67A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 4\%$       | 87%           |
| TRG100A180 | 18V            | 0 A       | 5.56A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A190 | 19V            | 0 A       | 5.21A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A200 | 20V            | 0 A       | 5.00A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A240 | 24V            | 0 A       | 4.17A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A280 | 28V            | 0 A       | 3.54A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A290 | 29V            | 0 A       | 3.41A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A300 | 30V            | 0 A       | 3.30A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A360 | 36V            | 0 A       | 2.78A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A480 | 48V            | 0 A       | 2.08A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |
| TRG100A540 | 54V            | 0 A       | 1.85A          | 1%             | $\pm 2\%$        | $\pm 1\%$       | $\pm 2\%$       | 87%           |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... 120A max. @240Vac  
 Conducted EMI ..... CISPR/FCC Class B  
 Leakage Current ..... 3.5mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 20ms typ. @115Vac  
 Short Circuit Protection ..... Continuous  
 Over Voltage Protection ..... Yes

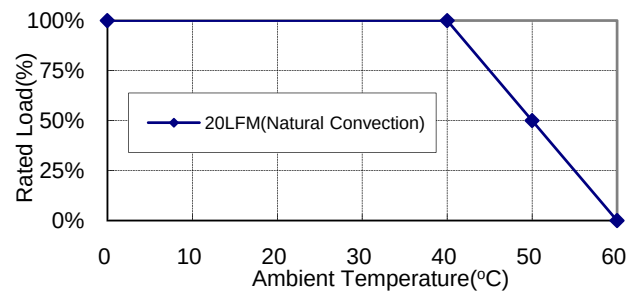
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0 ~ 40°C  
 Storage Temperature ..... -20~85°C  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 45KHz Typical  
 Dimensions ..... 5.906x2.756x1.378 inches (150.00x70.00x35.00 mm)  
 Weight ..... 600g(1.36 Pounds)  
 AC Inlet ..... IEC320/C14

### SAFETY AND EMC:

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

## TRG100A Series Derating Curve



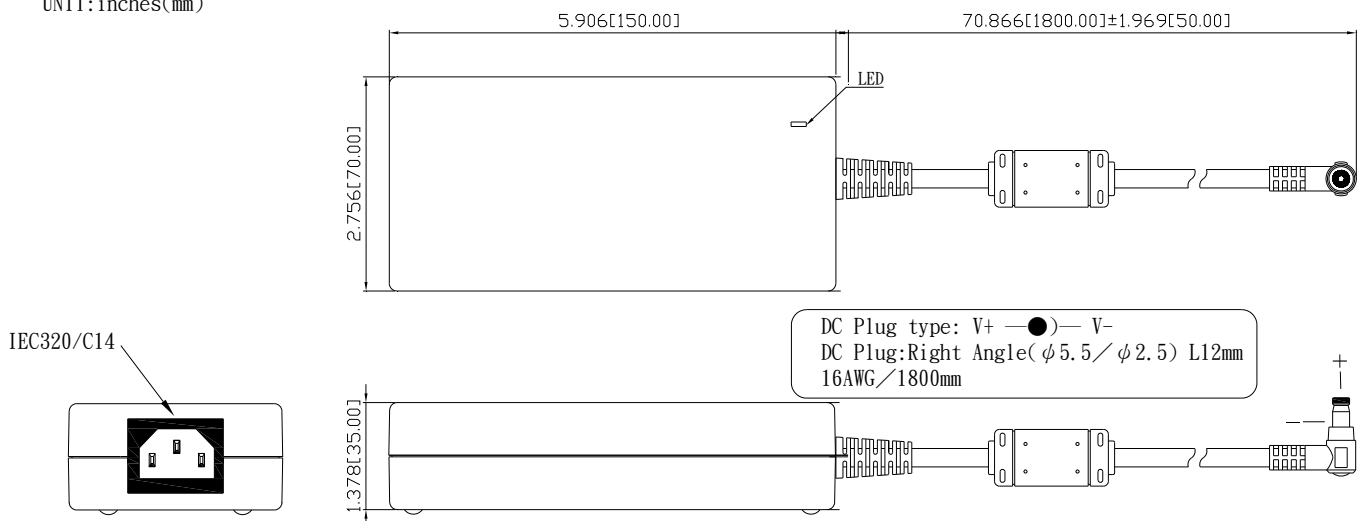
### NOTE:

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 measurement @20MHz BW.
3. Line regulation measured from 100Vac to 240Vac with full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load)
5. "Various TRG 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±0.02  
 Millimeters: X.XX±0.5  
 UNIT: inches(mm)



Typical at 25°C, nominal line and 60% load, unless otherwise Specified

# Mouser Electronics

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Cincon:

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