

100W Switching Adapter with PFC



Features:

- Universal Input Range: 90-264VAC
- * Meets EN61000-3-2 Class B and CISPR/FCC Class B
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * CEC Level V Compliant

(Output Cable Length ≤ 1800mm)
 (TRG100A120~150: Output Cable Length ≤ 1220mm)
 (TRG100A180~540: Output Cable Length ≤ 1800mm)

Ordering Information

| TRG100AXX | XX | E | XX | X |
|-----------|---|------------------------------|-------------------------------|--------------------------------|
| Model No. | DC Plug Type | DC Cable Length and Type | | OVP E : With OVP |
| | * Please see Page213 for more detailed descriptions | 01 : 720mm | 02 : 1200mm | 03 : 1800mm |
| | | 11 : 720mm with Ferrite Core | 12 : 1200mm with Ferrite Core | 13 : 1800m m with Ferrite Core |
| | | * 16AWG / UL2464 | | |



Electrical Characteristics:

| MODEL | OUTPUT VOLT-AGE | MIN. LOAD | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE SETPOINT | LINE REGULATION | LOAD REGULATION | %EFF. (Typ) |
|------------|-----------------|-----------|----------------|----------------|------------------|-----------------|-----------------|-------------|
| TRG100A120 | 12V | 0A | 8.34A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A125 | 12.5V | 0A | 8.00A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A135 | 13.5V | 0A | 7.33A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A150 | 15V | 0A | 6.67A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A180 | 18V | 0A | 5.56A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A190 | 19V | 0A | 5.21A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A200 | 20V | 0A | 5.00A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A240 | 24V | 0A | 4.17A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A280 | 28V | 0A | 3.54A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A290 | 29V | 0A | 3.41A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A300 | 30V | 0A | 3.30A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A360 | 36V | 0A | 2.78A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A480 | 48V | 0A | 2.08A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A540 | 54V | 0A | 1.85A | 1% | ±2% | ±1% | ±2% | 85% |

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:

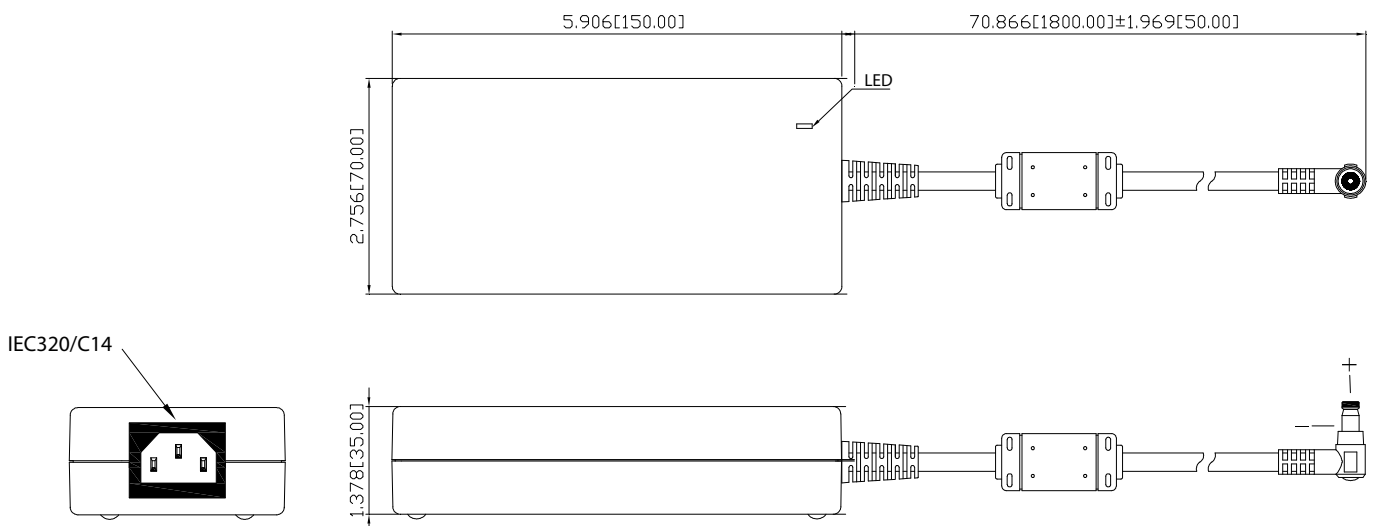
Isolation Input to output = 4,242VDC
 Operating Temperature 0 ~ 40°C
 Storage Temperature -20~85°C
 Cooling Natural Convection
 Switching Frequency 45KHz Typical
 Dimensions 5.906x2.756x1.378 inches (150.00x70.00x35.00 mm)
 Weight 600g(1.36 Pounds)
 AC Inlet IEC320/C14

SAFETY AND EMC:

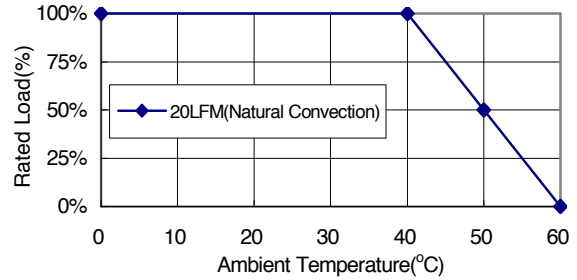
Emission and Immunity EN55022 Class B, FCC Part 15 Class B
 EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
 Safety EC60950-1, EN60950-1, UL60950-1

MECHANICAL SPECIFICATION

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



TRG100A Series Derating Curve



NOTE:

- Voltage setpoint at 60% load.
- Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW
- Line regulation measured from 100Vac to 240Vac, full load
- Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load)
- *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"



Typical at 25°C, nominal line and 75% load, unless otherwise Specified
 Data sheets are subject to change without notice, please check with our sales office before ordering