



TRG100A SERIES

100W SWITCHING ADAPTER WITH PFC



Features

- * Universal Input: 90-264Vac
- * Active PFC Meets EN61000-3-2
- * EMI Meets CISPR/FCC Class B
- * High Efficiency, 85% Typical
- * Green Power (Input Power < 0.5W at no load)
- * Meet CEC
(Output Cable Length :
1200mm(max.) for TRG100A-120~150
1800mm(max.) for TRG100A-180~480)



Ordering information

| TR100AXXX- | XX | E | XX |
|------------|--|---|----------------------------------|
| Model No. | DC Plug Type | | DC Cable Length and Type |
| | *Please see Page213 for more detailed descriptions | | 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 |

"Go to www.cincon.com for additional technical information"

| MODEL | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | % EFF. |
|------------|----------------|-----------|-----------|----------------|------------------|-----------------|-----------------|--------|
| TRG100A120 | 12V | 8.34A | 0 A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A125 | 12.5V | 8 A | 0 A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A150 | 15V | 6.67A | 0 A | 1% | ±2% | ±1% | ±4% | 85% |
| TRG100A180 | 18V | 5.56A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A190 | 19V | 5.21A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A240 | 24V | 4.17A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A280 | 28V | 3.54A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A290 | 29V | 3.41A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A300 | 36V | 3.30A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A360 | 36V | 2.78A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |
| TRG100A480 | 48V | 2.08A | 0 A | 1% | ±2% | ±1% | ±2% | 85% |



Specifications

INPUT SPECIFICATIONS:

| | |
|-----------------------|----------------------------|
| Voltage | 90~264Vac |
| Frequency | 47 to 63Hz |
| Inrush Current | 120A max. @264Vac |
| Conducted EMI | CISPR/FCC Class B |
| Isolation | Input to output = 4,242VDC |
| Leakage Current | 3.5mA max. |

OUTPUT SPECIFICATIONS:

| | |
|--------------------------------|-----------------------------|
| Holdup Time | 20ms typ. @115Vac |
| Short Circuit Protection | Continuous |
| Over Voltage Protection..... | Recycle AC input to restart |

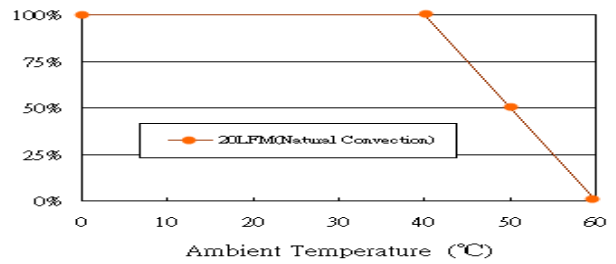
ENVIRONMENTAL CHARACTERISTICS:

| | |
|-----------------------------|--------------------|
| Operating Temperature | 0 ~ 40°C |
| Storage Temperature | -20 ~ 85°C |
| Cooling | Natural Convection |

MECHANICAL CHARACTERISTICS:

| | |
|------------------|--|
| Dimensions | 5.906x2.756x1.378Inches (150.00x70.00x35.00mm) |
| Weight | 600g (1.36Pounds) |

TRG100A Series Derating Curve



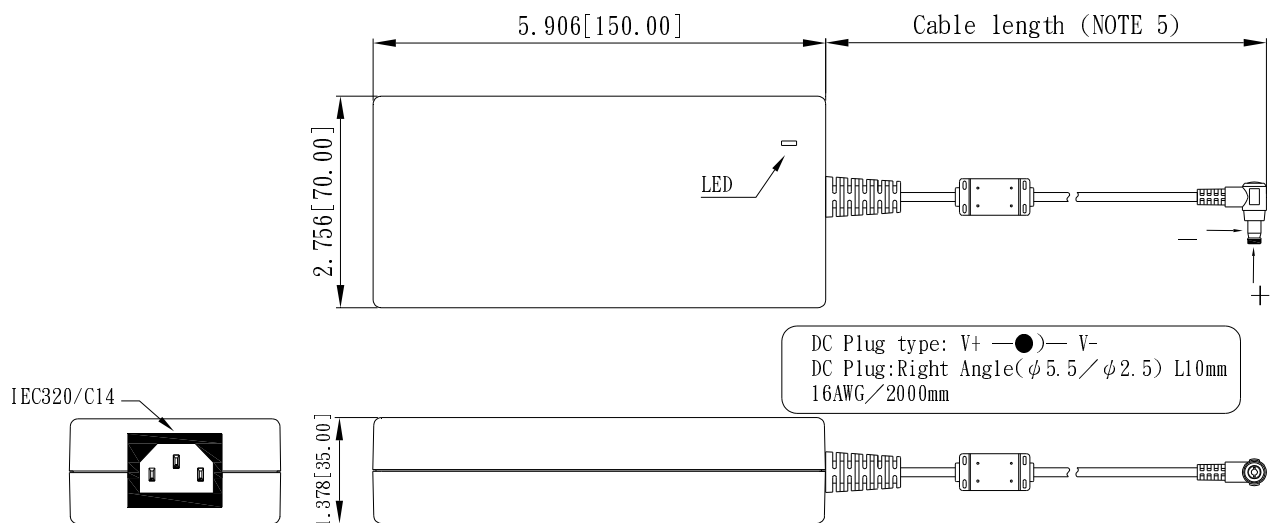
NOTE:

1. Voltage accuracy is set 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 is measured from 100Vac to 240Vac full load.
4. Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% load)
5. Cable Length limit for TRG100A-120~150: 1200mm(max.)
Cable Length limit for TRG100A-180~480: 1800mm(max.)
(For Customer Design)
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±0.02
Millimeters:X.XX±0.5



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

