



# 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-240/480



### 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](http://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%
TRG100A240	24V	4.17A	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

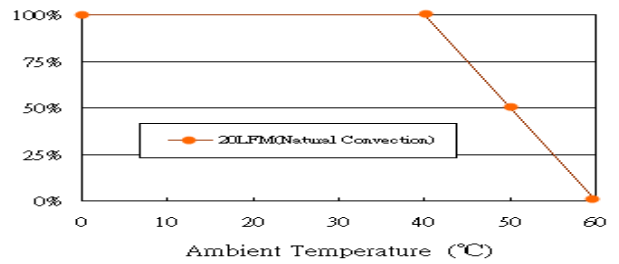
### ENVIRONMENTAL CHARACTERISTICS:

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

### MECHANICAL CHARACTERISTICS:

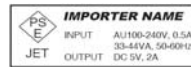
Dimensions .....	5.906x2.756x1.378Inches (150.00x70.00x35.00mm)
Weight .....	600g (1.36Pounds)

## TRG100A Series Derating Curve



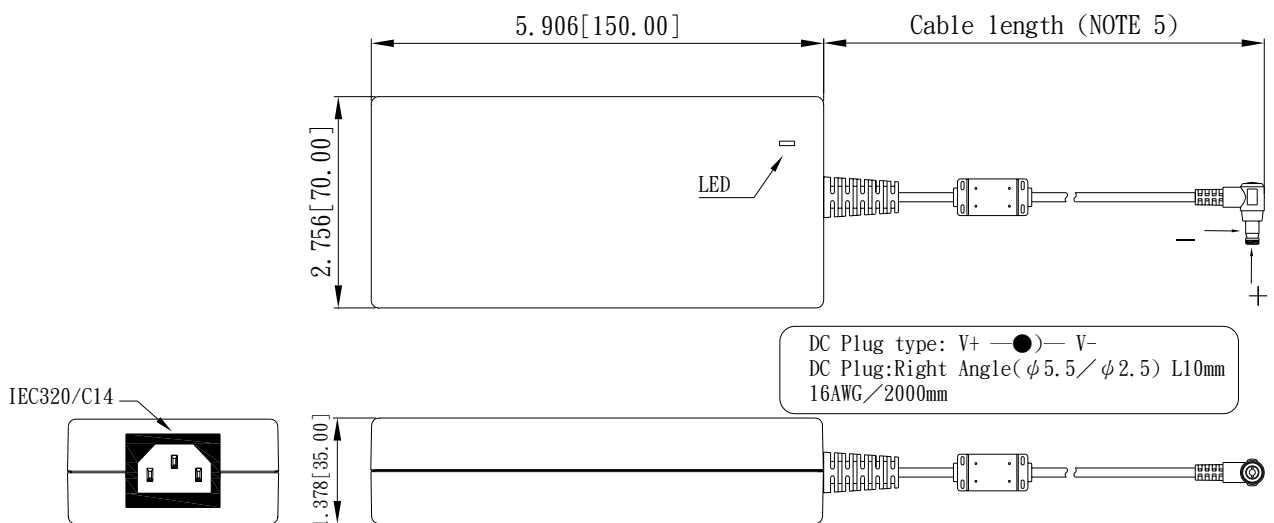
### NOTE:

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-240/480: 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