

TRG100A

S E R I E S

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

TRG100A XXX -	XX	X	XX
Model No.	DC Plug Type * Please see Page 243 for more detailed descriptions	OVP E: With OVP	DC Cable Length and Type 11: 720mm with Ferrite Core 12: 1220mm with Ferrite Core 13: 1800mm with Ferrite Core 21: 720mm with two Ferrite Core 22: 1220mm 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	12 V	0 A	8.34 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	87%
TRG100A125	12.5 V	0 A	8.00 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	87%
TRG100A135	13.5 V	0 A	7.33 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	87%
TRG100A150	15 V	0 A	6.67 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	87%
TRG100A180	18 V	0 A	5.56 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A190	19 V	0 A	5.21 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A200	20 V	0 A	5.00 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A240	24 V	0 A	4.17 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A280	28 V	0 A	3.54 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A290	29 V	0 A	3.41 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A300	30 V	0 A	3.30 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A360	36 V	0 A	2.78 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A480	48 V	0 A	2.08 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG100A540	54 V	0 A	1.85 A	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

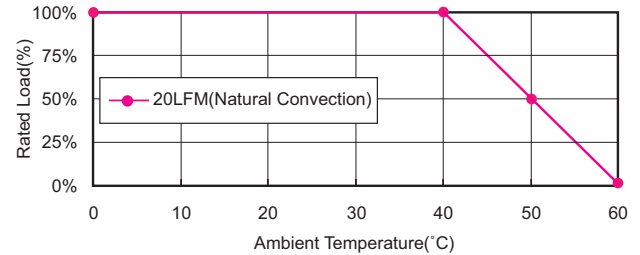
GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature 0°C~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

TRG100A Series Derating Curve



NOTE:

- Voltage accuracy is set at 60% full load.
- Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
- Line regulation is measured from 100Vac to 240Vac, full load.
- Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load).
- "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 In Inches(mm)
 Tolerance Inches: x.xxx= ±0.02
 Millimeters: x.xx= ±0.5

