

TR100

S E R I E S

100W SWITCHING ADAPTER WITH PFC



Features

- Universal Input Range 90-264VAC
- Meets EN55022 Class B and CISPR/FCC Class B, Conducted
- Continuous Short Circuit Protection
- Over Voltage Protection

Ordering information

TR100AXXX - XX	E XX
Model No. DC Plug Type	DC Cable Length and Type
* Please see Page235 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

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	SWITCHING FREQUENCY	%EFF
TR100A120	12V	8.33 A	0 A	1%	± 2%	± 1%	± 4%	67KHz Typ.	85% min.
TR100A150	15V	6.67 A	0 A	1%	± 2%	± 1%	± 4%	67KHz Typ.	85% min.
TR100A180	18V	5.56 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A190	19V	5.21 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A240	24V	4.17 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A280	28V	3.54 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A290	29V	3.41 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A300	30V	3.30 A	0 A	1%	± 2%	± 1%	± 2%	67KHz Typ.	85% min.
TR100A360	36V	2.78 A	0 A	1%	± 2%	± 1%	± 2%	67kHz Typ.	85% min.
TR100A480	48V	2.08 A	0 A	1%	±2%	± 1%	± 2%	67KHz Typ.	85% min.

Specifications

INPUT SPECIFICATIONS:

Voltage90 ~ 264Vac
 Frequency47 to 63Hz
 Inrush Current.....100A max. @240Vac
 Conducted EMI.....CISPR/FCC Class B
 IsolationInput to output =4,242VDC
 Leakage Current.....3.5mA max

OUTPUT SPECIFICATIONS:

Holdup Time20mS typ. @115Vac
 Short Circuit ProtectionContinuous
 Over Voltage ProtectionYes

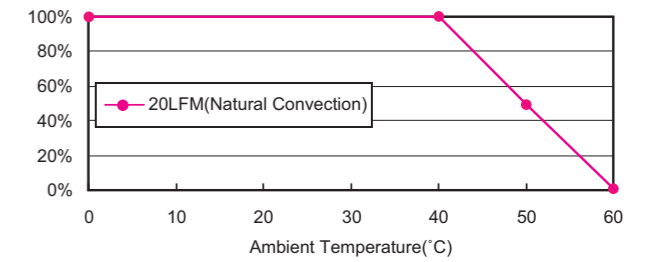
ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature0 ~ 40°C
 Storage Temperature-20 ~ 85°C
 Cooling.....Natural Convection

MECHANICAL CHARACTERISTICS:

Dimensions150.00 x 70.00 x 35.00mm(5.906 x 2.756 x 1.378 Inches)
 Weight600g (1.36Pounds)

TR100 Series Derating Curve



NOTE:

1. Voltage accuracy is set at 60% full load.
2. Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measurement @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% full load)
5. Cable Length limit for TR100A120/150:1200mm(max.)
Cable Length limit for TR100A180/190/240/480:1800mm(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 In Inches(mm)
 Tolerance Inches: x.xxx= ±0.02
 Millimeters: x.xx= ±0.5

