

TR70

S E R I E S

70W SWITCHING ADAPTER



Features

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

Ordering information

TR70AXX	- XX	X	XX
Model No.	DC Plug Type * Please see Page235 for more detailed descriptions	OVP Option A : Without OVP Option E : With OVP Option	DC Cable Length and Type 01 : 720mm 02 : 1200mm 03 : 1800mm 11 : 720mm with Ferrite Core 12 : 1200mm with Ferrite Core 13 : 1800mm with Ferrite Core * 18AWG / UL1185

MODEL	OUTPUT VOLTAGE	MIN. LOAD	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REGULATION	LOAD REGULATION	SWITCHING FREQUENCY	%EFF
TR70A12	12V	0	5.5 A	1%	± 2%	± 1%	± 5%	50~70KHz Typ.	80% Typ.
TR70A15	15V	0	4.6 A	1%	± 2%	± 1%	± 3%	50~70KHz Typ.	82% Typ.
TR70A18	18V	0	3.9 A	1%	± 2%	± 1%	± 2%	50~70KHz Typ.	83% Typ.
TR70A19	19V	0	3.7 A	1%	± 2%	± 1%	± 2%	50~70KHz Typ.	83% Typ.
TR70A24	24V	0	3.0 A	1%	± 2%	± 1%	± 2%	50~70KHz Typ.	84% Typ.
TR70A48	48V	0	1.5 A	1%	± 2%	± 1%	± 2%	50~70KHz Typ.	84% Typ.

Specifications

INPUT SPECIFICATIONS:

Voltage90 ~ 264Vac
 Frequency50 to 60Hz
 Inrush Current.....60A max. @240Vac
 Conducted EMI.....CISPR/FCC Class B
 IsolationInput to output =4,242VDC
 Leakage Current.....3.5mA max.

OUTPUT SPECIFICATIONS:

Holdup Time8mS typ. @115Vac
 Short Circuit ProtectionContinuous
 Over Voltage ProtectionOption

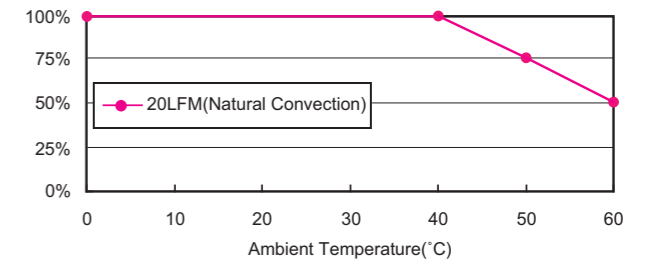
ENVIRONMENTAL CHARACTERISTICS:

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

MECHANICAL CHARACTERISTICS:

Dimensions132.00 x 58.00 x 30.00mm(5.197 x 2.283 x 1.181 Inches)
 Weight345g (0.7 Pounds)
 AC Inlet.....IEC320/C14

TR70 Series Derating Curve



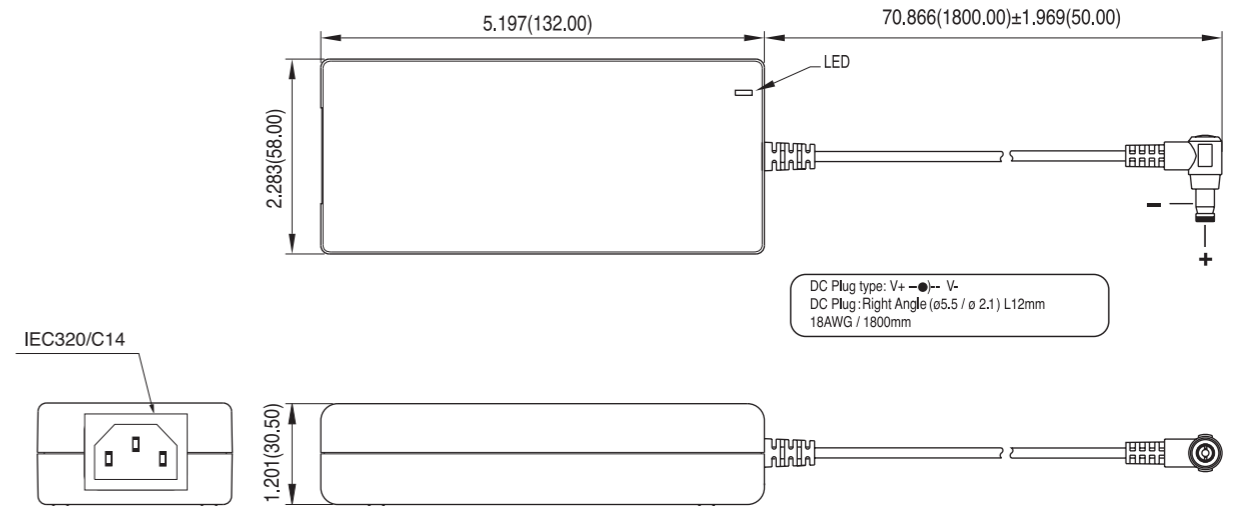
NOTE:

1. Voltage setpoint 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 measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load)
5. *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 Cincin 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



Typical at 25°C, nominal line and 75% load, unless otherwise Specified