



TRH100A SERIES

100W SWITCHING

ADAPTER WITH PFC

Features

- * Universal Input Range: 90-264VAC
 - * Active PFC Meets EN61000-3-2
 - * Conductive EMI Meets CISPR/FCC Class B
 - * No Load power consumption < 150mW
 - * Continuous Short Circuit Protection
 - * Over Voltage Protection
- Meet CoC Tier 2 & DoE Level VI
(Output Cable Length $\leq$ 1800mm)
(TRH100A120~150: Output Cable Length $\leq$ 1220mm)
(TRH100A180~480: Output Cable Length $\leq$ 1800mm)



Ordering information

TRH100AXXX- XX	X	XX
Model No.	DC Plug Type	DC Cable Length and Type
	OVP	
	E: WITH OVP	11: 720mm with Ferrite Core
		12: 1220mm with Ferrite Core
		13: 1800mm with Ferrite Core
		14: 1000mm with Ferrite Core
		21: 720mm with two Ferrite Core
		22: 1220mm with two Ferrite Core
		23: 1800mm with two Ferrite Core
		*UL2464 for all Model

MODEL	OUTPUT VOLTAGE	MIN. LOAD	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REGULATION	LOAD REGULATION	% EFF.. (Typ)
TRH100A120	12V	0 A	8.34A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	89%
TRH100A135	13.5V	0 A	7.33A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	89%
TRH100A150	15V	0 A	6.67A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	89%
TRH100A180	18V	0 A	5.56A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRH100A190	19V	0A	5.26A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRH100A240	24V	0 A	4.17A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRH100A280	28V	0 A	3.54A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRH100A360	36V	0 A	2.78A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRH100A480	48V	0 A	2.1A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%

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	16ms typ. @115Vac
Short Circuit Protection	Continuous
Over Voltage Protection	Yes

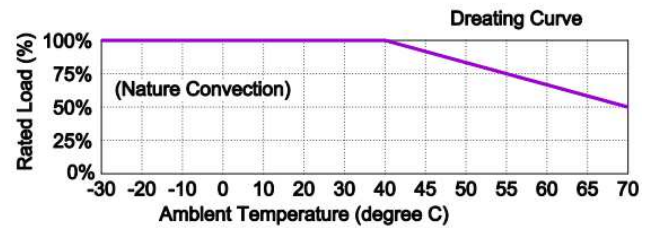
GENERAL SPECIFICATIONS:

Isolation	Input to output = 4,242VDC
Operating Temperature	-30°C ~ 70°C, 40°C~70°C with -1.67%/°C
Storage Temperature	-40~85°C
Operating Humidity.....	93%RH max. no condensing
Cooling	Natural Convection
Switching Frequency	65KHz Typical
Operating Altitude.....	Sea Level to 5000m
AC Inlet	IEC320/C14, C6
MTBF, MIL-HDBK-217F(25°C Ta)	160K hrs min.
Dimensions	5.591x2.283x1.457 inches (142.00x58.00x37.00 mm)
Weight	485g

SAFETY AND EMC:

Emission and Immunity	EN55022 Class B, FCC Part 15 Class B
	EN61000-3-2, EN61000-3-3, EN55024
	EN61204-3
Safety	IEC60950-1, EN60950-1, UL60950-1

TRH100A Series Derating Curve



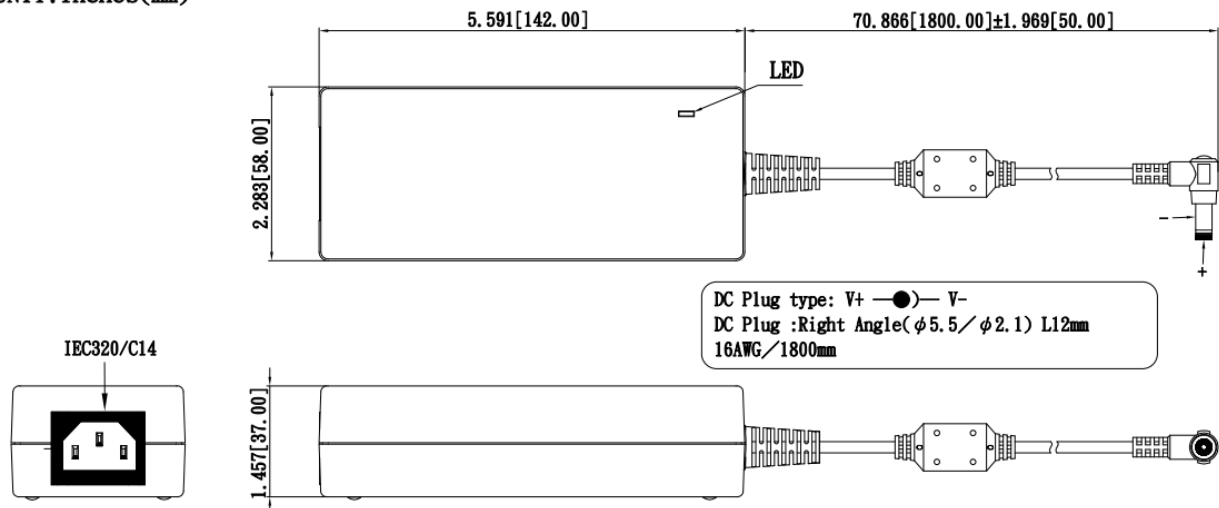
NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage setpoint at 60% full load
3. Line regulation measured from 100Vac to 240Vac with full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load)
5. Average Efficiency measured at 25%, 50%, 75%, 100% load and input voltage is 115Vac / 230Vac.

Mechanical Specification

All Dimensions are in inches(mm)
 Tolerance: Inches:X.XXX±0.02
 Millimeters:X.XX±0.5

UNIT: inches(mm)



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

Mouser Electronics

Authorized Distributor

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Cincon:

[TRH100A240-35E13-Level-VI](#) [TRH100A120-02E12-Level-VI](#) [TRH100A240-02E13-Level-VI](#) [TRH100A120-40E12-Level-VI](#) [TRH100A135-02E12-Level-VI](#) [TRH100A240-01E13-Level-VI](#) [TRH100A360-02E13-Level-VI](#) [TRH100A280-02E13-Level-VI](#) [TRH100A360-12E13-Level-VI](#) [TRH100A120-12E12-Level-VI](#) [TRH100A135-12E12-Level-VI](#) [TRH100A180-12E13-Level-VI](#) [TRH100A240-49E13-Level-VI](#) [TRH100A240-40E13-Level-VI](#) [TRH100A280-01E13-Level-VI](#) [TRH100A240-48E13-Level-VI](#) [TRH100A240-39E13-Level-VI](#) [TRH100A480-21E13-Level-VI](#) [TRH100A480-01E13-Level-VI](#) [TRH100A150-12E12-Level-VI](#) [TRH100A190-11E13-Level-VI](#) [TRH100A240-36E13-Level-VI](#) [TRH100A480-11E13-Level-VI](#) [TRH100A120-49E12-Level-VI](#) [TRH100A190-12E13-Level-VI](#) [TRH100A120-36E12-Level-VI](#) [TRH100A120-11E12-Level-VI](#) [TRH100A180-01E13-Level-VI](#) [TRH100A180-11E13-Level-VI](#) [TRH100A135-01E12-Level-VI](#) [TRH100A240-11E13-Level-VI](#) [TRH100A120-35E12-Level-VI](#) [TRH100A360-01E13-Level-VI](#) [TRH100A480-02E13-Level-VI](#) [TRH100A480-12E13-Level-VI](#) [TRH100A240-12E13-Level-VI](#) [TRH100A360-11E13-Level-VI](#) [TRH100A190-01E13-Level-VI](#) [TRH100A150-11E12-Level-VI](#) [TRH100A180-02E13-Level-VI](#) [TRH100A120-01E12-Level-VI](#) [TRH100A120-48E12-Level-VI](#) [TRH100A190-02E13-Level-VI](#) [TRH100A280-12E13-Level-VI](#) [TRH100A120-39E12-Level-VI](#) [TRH100A150-02E12-Level-VI](#) [TRH100A150-01E12-Level-VI](#) [TRH100A135-11E12-Level-VI](#) [TRH100A280-11E13-Level-VI](#) [TRH100A120-02E12-VI](#)