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≦1800mm)
  (TRH100A120~150: Output Cable Length≦1220mm)
  (TRH100A180~480: Output Cable Length≦1800mm)



Ordering information

TRH100AXXX-	XX	X	XX
Model No.	DC Plug Type	OVP	DC Cable Length and Type
		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 (NOTE1)	VOLTAGE SETPOINT (NOTE2)	LINE REGULATION (NOTE3)	LOAD REGULATION (NOTE4)	%EFF (Typ.) (NOTE5)
TRH100A120	12V	0 A	8.34A	1%	±2%	±1%	±4%	89%
TRH100A135	13.5V	0 A	7.33A	1%	±2%	±1%	±4%	89%
TRH100A150	15V	0 A	6.67A	1%	±2%	±1%	±4%	89%
TRH100A180	18V	0 A	5.56A	1%	±2%	±1%	±2%	89%
TRH100A190	19V	0A	5.26A	1%	±2%	±1%	±2%	89%
TRH100A240	24V	0 A	4.17A	1%	±2%	±1%	±2%	89%
TRH100A280	28V	0 A	3.54A	1%	±2%	±1%	±2%	89%
TRH100A360	36V	0 A	2.78A	1%	±2%	±1%	±2%	89%
TRH100A480	48V	0 A	2.1A	1%	±2%	±1%	±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

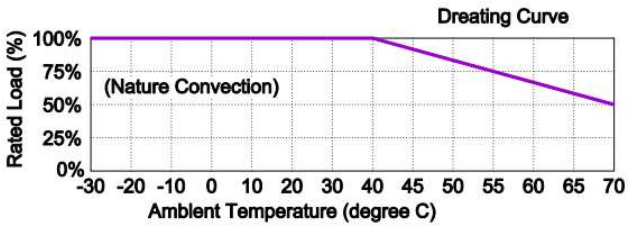
GENERAL SPECIFICATIONS:

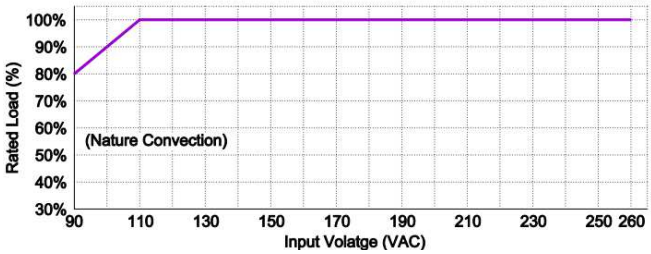
Isolation ..... Input to output = 4,242VDC
Operating Temperature ..... -30℃ ~ 70℃,40℃~70℃ with -1.67%/
Storage Temperature ..... -40~85℃
Operating Humidity.....93%RH max. no condensing
Cooling ..... Natural Convection
Switching Frequency ..... 65KHz Typical
Operating Altitude.....Sea Level to 5000m
AC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

SAFETY AND EMC:

Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B
EN61000-3-2,EN61000-3-3, EN55024
EN61204-3
Safety ..... Class I, IEC/UL/EN62368-1, IEC/UL/EN60950-1

TRH100A Series Derating Curve

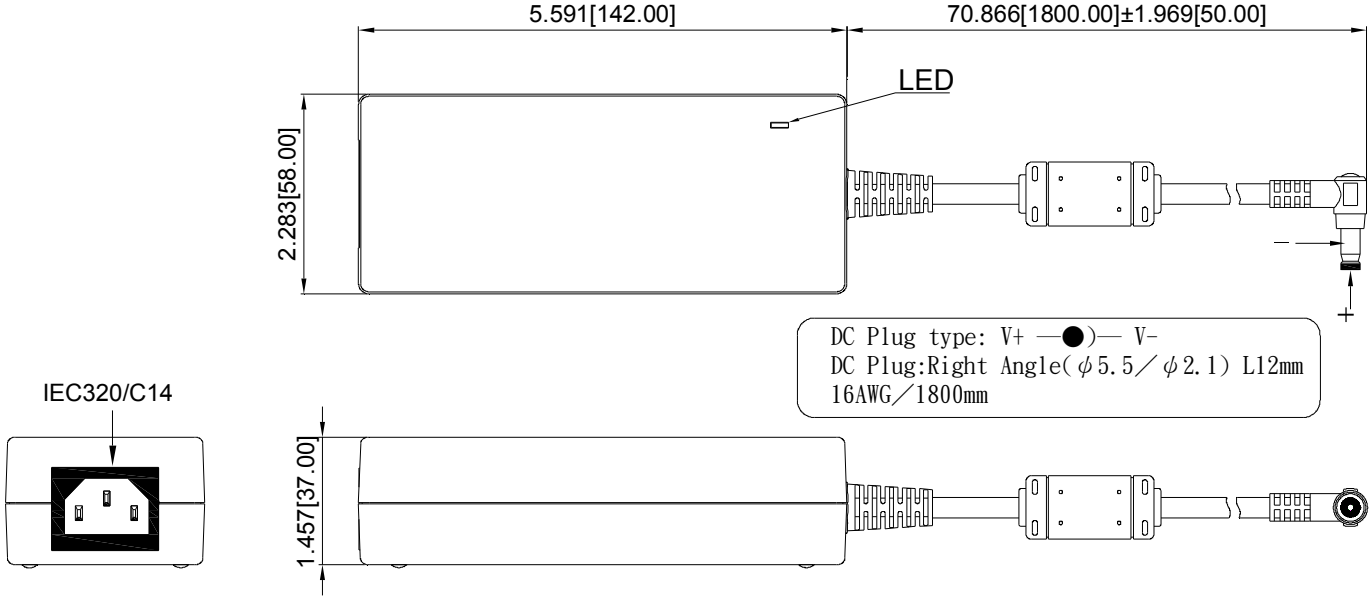




NOTE:

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, 230Vac Input voltage.
6. Inrush current at 120A Max./ 200us for AC turn on.

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