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TRH160A SERIES

160W SWITCHING ADAPTER



Features

- * IEC320/C14 Compact Size
- * Universal Input: 90~264Vac
- * Over Voltage Protection
- * Continuous Short Circuit Protection
- * No Load Power Consumption<150mW
- * Very Low Leakage Current <90uA
- * Meet IEC/EN 60335-1
- * Approved IEC/EN/UL62368-1
- * Meets CoC Tier 2 & DoE Level VI
- * CE EN55032 Class B & CISPR/FCC Class B
- (12V: Output Cable Length $\leq$ 950mm, DIN Power Plug)
- (24V: Output Cable Length $\leq$ 1220mm, DC Jack)
- (28V~56V: Output Cable Length $\leq$ 1800mm, DC Jack)



Ordering information

TRH160AXXX	-XX	X	XX
Model No.	DC Plug Type	OVP	DC Cable Length and Type
		E: with OVP	471:950mm with Ferrite Core
			12:1220mm with Ferrite Core
			13:1800mm with Ferrite Core
			*UL2464 Cable For all models

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	EFFICENTY TYP. NOTE 5
TRH160A120	12V	12.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	91%
TRH160A240	24V	6.66A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	92%
TRH160A280	28V	5.7A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	92%
TRH160A300	30V	5.31A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	92%
TRH160A360	36V	4.44A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	92%
TRH160A480	48V	3.33A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	93%
TRH160A560	56V	2.85A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	93%

Specifications are subject to change without notice.

Specifications

TRH160A Series Derating Curve

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Input Current	100Vac/2.0 max.& 240Vac/1.0 max
Inrush Current	120A max. @240Vac
Conducted EMI	CISPR/FCC Class B
Leakage Current	90uA max.

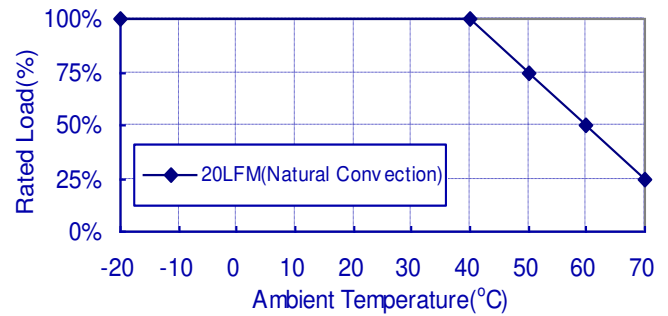
OUTPUT SPECIFICATIONS:

Holdup Time	25ms typ. @115Vac
Short Circuit Protection	Continuous(Auto Recovery)
Over Voltage Protection	IC Component to Clamp
Temperature Coefficient	±0.05%/°C max.

GENERAL SPECIFICATIONS:

Isolation	Input to output = 3,000VAC
Operating Temperature	-20~70°C (see derating curve)

Storage Temperature	-30°C Can be Start-Up
Humidity	-40~85°C
Cooling	93% RH max. Non Condensing
Switching Frequency	Natural Convection
MTBF	110KHz typ.
Altitude	MIL-HDBK-217F, GB, 25°C/115VAC
Life time	300Khrs typ.
Dimensions	5000m
Weight	Ambient 40°C 75% Load
	26Khrs min.
	Dimensions 5.906x2.756x1.497Inches (150x70x38mm)
	Weight 575g



SAFETY AND EMC:

Emissions and Immunity	EN55032 Class B, FCC Part 15 Class B
	EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
Safety	Class I, IEC/EN/UL62368-1

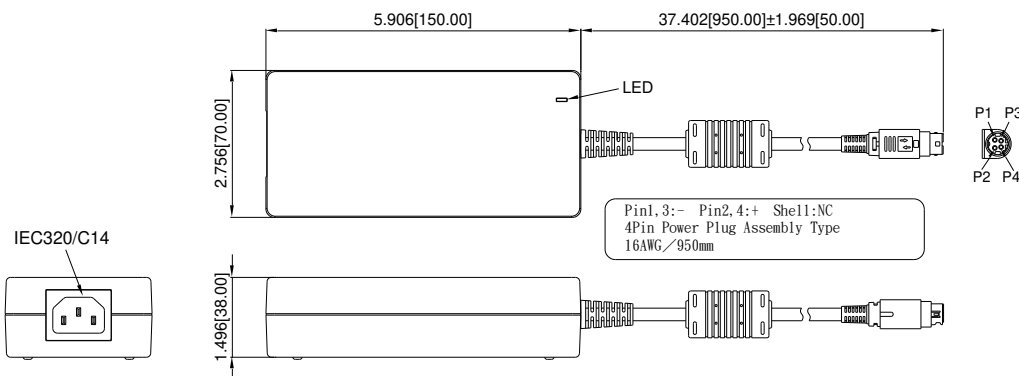
NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage set point at 60% full load.
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. Efficiency measured 75% load at 230Vac.

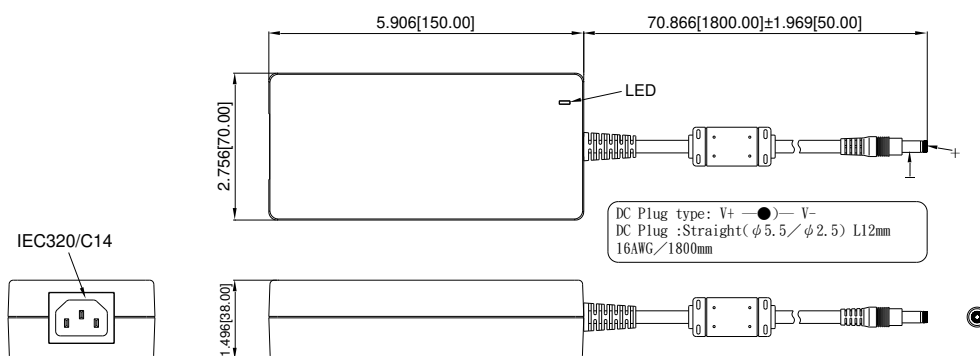
Mechanical Specification

All Dimensions are in inches[mm]
 Tolerance:Inches:X.XXX±0.02
 Millimeters:X.XX±0.5
 UNIT:inches[mm]

Din Power Plug



DC Jack



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