



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)
- (24V: Output Cable Length $\leq$ 1220mm)
- (28V~48V: Output Cable Length $\leq$ 1800mm)



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	EFFICIENTY 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

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

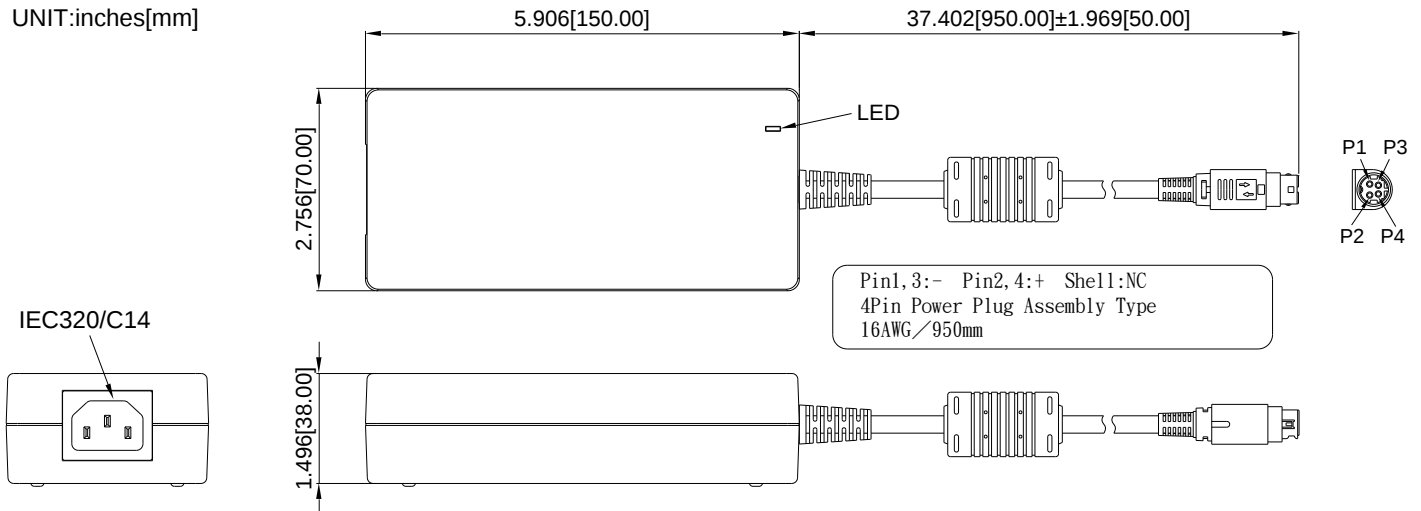
Mechanical Specification

All Dimensions are in inches[mm]

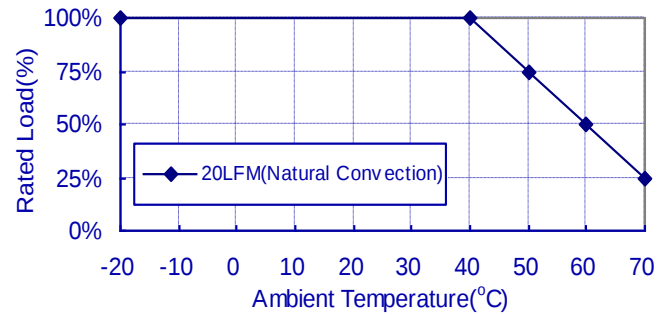
Tolerance:Inches:X.XXX±0.02

Millimeters:X.XX±0.5

UNIT:inches[mm]



TRH160A Series Derating Curve



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.

Mouser Electronics

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Cincon:

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