TRH25 SERIES
25W SWITCHING ADAPTER

Features

* Universal Input: 90~264Vac
* Miniature Size
* Meets EN55022 Class B and CISPR/FCC Class B
* Continuous Short Circuit Protection
* Over Voltage Protection
* Meet CoC Tier 2 & DoE Level VI
  (Output Cable Length ≦ 1800mm)
  (TRH25033: Output Cable Length ≦ 720mm)
  (TRH25050: Output Cable Length ≦ 1220mm)
* No Load Power Consumption<75mW

Ordering information

TRH25 XXX	- X	-X	E	XX
Model No.	**AC Plug Type**	**DC Plug Type**	**OVP**	**DC Cable Length and Type**
	A: USA 2 Pin			01: 720mm
	E: Europe 2 Pin			02: 1220mm
	U: British 3 Pin			03: 1800mm
	S: Australia 2 Pin			11: 720mm with Ferrite Core
				12: 1220mm with Ferrite Core
				13: 1800mm with Ferrite Core
				* 18AWG / UL1185
				* 16AWG / UL1185 for Vo:5V,3.3V

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	AVERAGE EFFICENCY min. NOTE 5
TRH25033	3.3V	4.0A	50mVp-p	±2%	±1%	±6%	80.97%
TRH25050	5V	4.0A	50mVp-p	±2%	±1%	±6%	83.69%
TRH25120	12V	2.1A	1%	±2%	±1%	±5%	87.02%
TRH25150	15V	1.67A	1%	±2%	±1%	±3%	86.99%
TRH25180	18V	1.4A	1%	±2%	±1%	±2%	87.02%
TRH25240	24V	1.05A	1%	±2%	±1%	±2%	87.02%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... 0.7A max.
Inrush Current .....Cold Start @25℃ 60A max. @ 240Vacc
Leakage Current ..... 0.25mA max

OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac
Short Circuit Protection ..... Continuous(Auto Recovery)
Over Voltage Protection .... TVS Component to Clamp
Temperature Coefficient ..... ±0.05%/℃

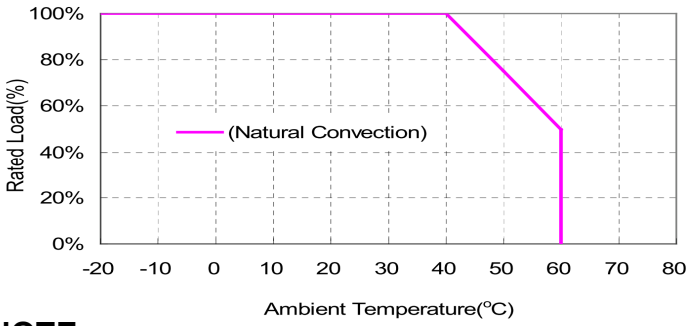
GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC
Operating Temperature ..... -20~60℃(see derating curve)
Storage Temperature ..... -20~85℃
Humidity ..... 93% RH max. Non condensing
Cooling ..... Natural Convection
Switching Frequency ..... 67KHz typ.
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... TBD hrs min.
Altitude 2000m
Dimensions 2.835x2.047x1.378Inches (72.00x52.00x35.00mm)
Weight ..... 140g(0.31 Pounds)

SAFETY AND EMC:

Emission and Immunity .... EN55022 Class B, FCC Part 15 Class B
EN61000-6-3, EN61000-3-2, EN61000-3-3
EN55024, EN61204-3, EN61000-6-1
Safety .....Class II, IEC60950-1, EN60950-1, UL60950-1

TRH25 Series Derating Curve



NOTE:

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

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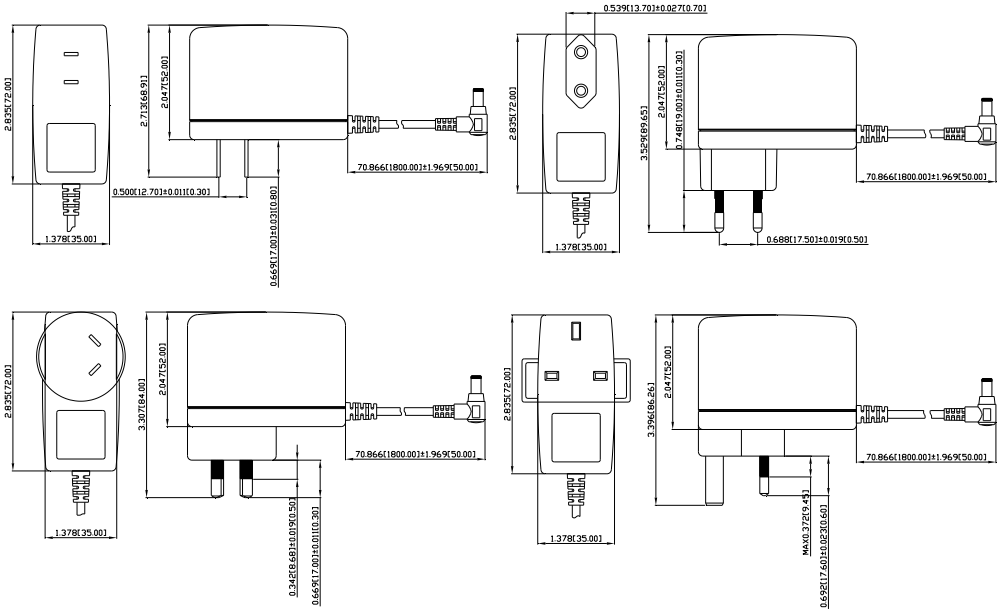
Mechanical Specification

All Dimensions are 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