



TRH25 SERIES

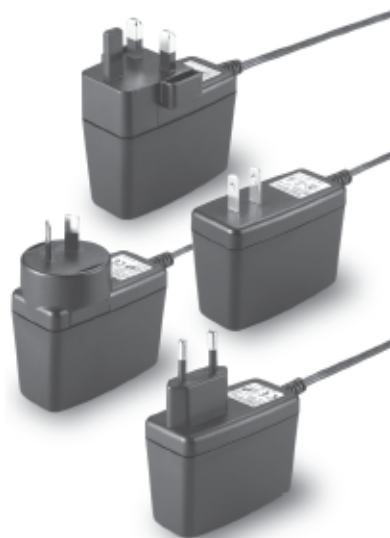
25W SWITCHING

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 $\leq$ 1800mm)
(TRH25033: Output Cable Length $\leq$ 720mm)
(TRH25050: Output Cable Length $\leq$ 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 EFFICIENCY min. NOTE 5
TRH25033	3.3V	4.0A	50mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	80.97%
TRH25050	5V	4.0A	50mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	83.69%
TRH25120	12V	2.1A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	87.02%
TRH25150	15V	1.67A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	86.99%
TRH25180	18V	1.4A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87.02%
TRH25240	24V	1.05A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	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°C 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%/°C

GENERAL SPECIFICATIONS:

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

SAFETY AND EMC:

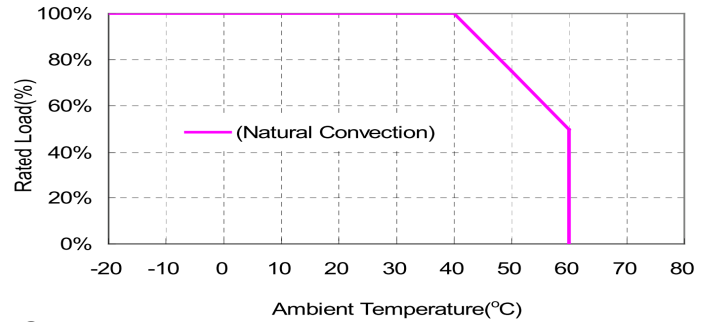
Emission and Immunity EN55022 Class B, FCC Part 15 Class B

EN61000-6-3, EN61000-3-2, EN61000-3-3

EN55024, EN61204-3, EN61000-6-1

SafetyClass II, IEC60950-1, EN60950-1, UL60950-1

TRH25 Series Derating Curve

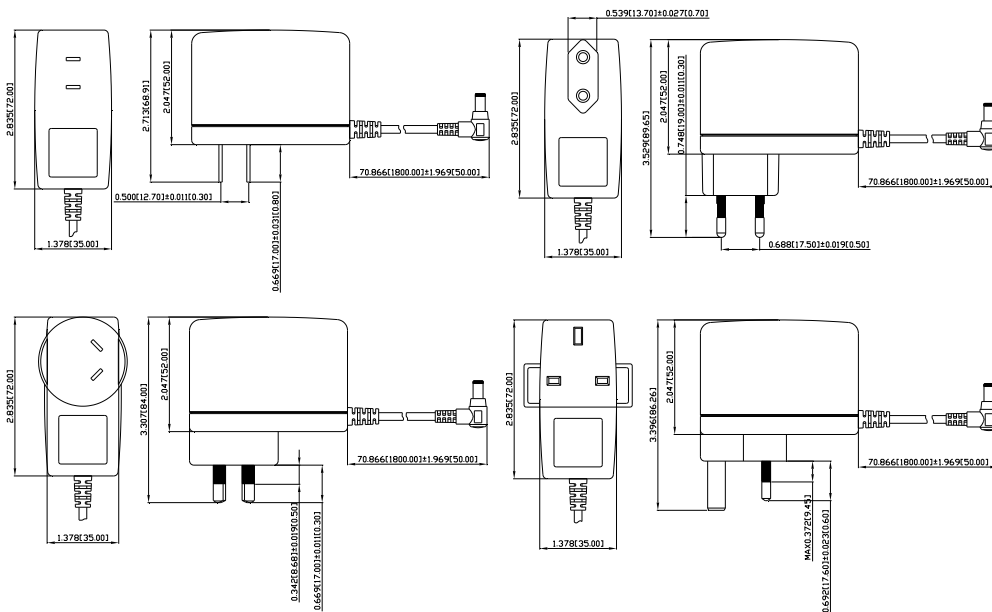


NOTE:

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.

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

Mouser Electronics

Authorized Distributor

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Cincon:

[TRH25033-A-13E01-Level-VI](#)