



# TRE25 SERIES

## 25W SWITCHING ADAPTER



### Features

- \* Miniature Size
- \* Universal Input: 90~264Vac
- \* EMI Meets EN55022 Class B and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* Meet CoC V5 Tier 2 & DoE Level VI (Output Cable Length  $\leq$  1800mm) (TRE25050: Output Cable Length  $\leq$  1220mm)
- \* No Load Power Consumption < 75mW



### Ordering information

TRE25XXX	X	XX	G	XX
Model No.	AC Plug Type	DC Plug Type	UL 1571 WITH OVP	DC Cable Length and Type
	A: USA 2 Pin			01: 720mm
	E: Europe 2 Pin			02: 1220mm
	U: British 3 Pin			03: 1800mm
				11: 720mm with Ferrite Core
				12: 1220mm with Ferrite Core
				13: 1800mm with Ferrite Core
				* 20AWG / UL1571 or Equivalent
				* 16AWG / UL1571 for Vo:5V or Equivalent

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	AVG.ERAGE EFF. min.
TRE25050	5V	4A	50mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	83.7%
TRE25120	12V	2.1A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	87.0%
TRE25150	15V	1.67A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	87.0%
TRE25180	18V	1.4A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87.0%
TRE25240	24V	1.05A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87.0%

Specifications are subject to change without notice.

## Specifications

### INPUT SPECIFICATIONS:

Voltage .....	90~264Vac
Frequency .....	47 to 63Hz
Input Current .....	0.7A max.
Inrush Current .....	60A max. @240Vac
Conducted EMI .....	CISPR/FCC Class B
Leakage Current .....	0.25mA max.

### OUTPUT SPECIFICATIONS:

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

### GENERAL SPECIFICATIONS:

Isolation .....	Input to output = 3,000VAC
Operating Temperature .....	-20~60°C (see derating curve)
Storage Temperature .....	-20~85°C
Humidity .....	93% RH max. Non condensing
Cooling .....	Natural Convection
Switching Frequency .....	65KHz typ.
MTBF .....	MIL-HDBK-217F, GB, 25°C/115VAC ..... 300K hrs min.
Altitude .....	2000m
Life time .....	Ambient 40degC 75% Load ..... >3years
Dimensions .....	2.795x1.906x1.299Inches (71.00x48.4x33.00mm)
Weight .....	140g(0.31 Pounds)

### Mechanical Specification

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



## TRE25 Series Derating Curve



### 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

### 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 100% full load and from 60% to 20% load (60% +/- 40% full load).



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