



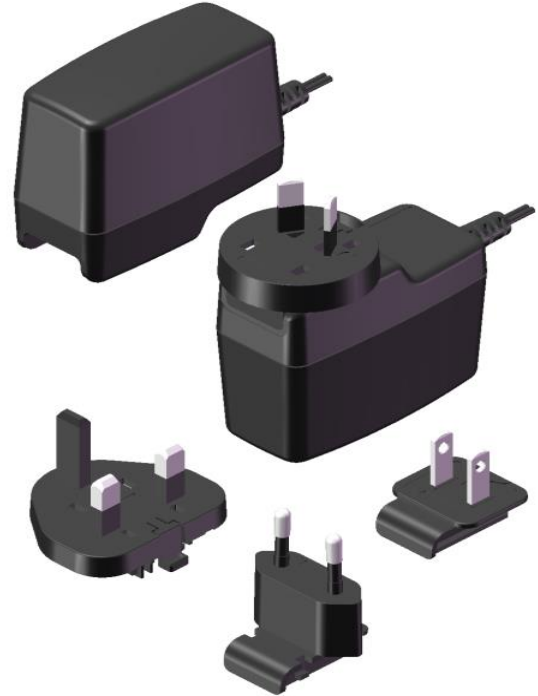
TRE25R SERIES

25W SWITCHING ADAPTER



Features

- * Miniature Size
- * Universal Input Range 90~264Vac
- * Interchangeable AC Plugs
- * EMI Meets EN55032 Class B and CISPR/FCC Class B
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * No Load Power Consumption < 75mW
- * Approved IEC/EN/UL62368-1
- * Meet CoC V5 Tier 2 & DoE Level VI
(Output Cable Length $\leq$ 1800mm)
(TRE25R050: Output Cable Length $\leq$ 1220mm)



Ordering Information

TRE25RXXX -	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
	S: Australia 2 Pin			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
				* 18AWG/UL1571 for Vo: 9V 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.
TRE25R050	5V	4A	50mVp-p	±2%	±1%	±6%	83.7%
TRE25R090	9V	2.5A	1%	±2%	±1%	±5%	86.52%
TRE25R120	12V	2.1A	1%	±2%	±1%	±5%	87.0%
TRE25R150	15V	1.67A	1%	±2%	±1%	±3%	87.0%
TRE25R180	18V	1.4A	1%	±2%	±1%	±2%	87.0%
TRE25R240	24V	1.05A	1%	±2%	±1%	±2%	87.0%

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac 120~370Vdc
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:

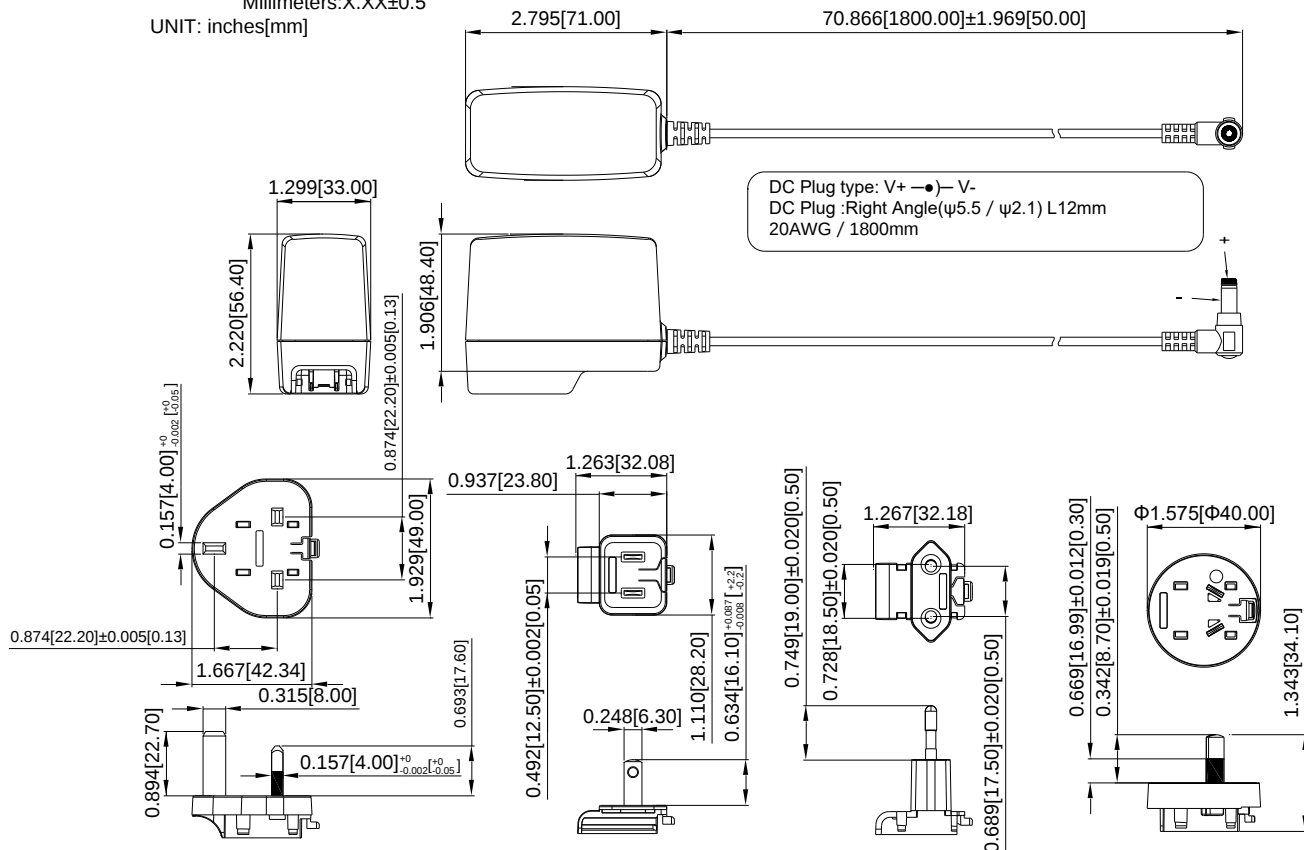
Holdup Time	10ms typ. @115Vac
Short Circuit Protection	Continuous(Auto Recovery)
Over Voltage Protection	IC Component to Clamp
Temperature Coefficient	±0.05%/°C

GENERAL SPECIFICATIONS:

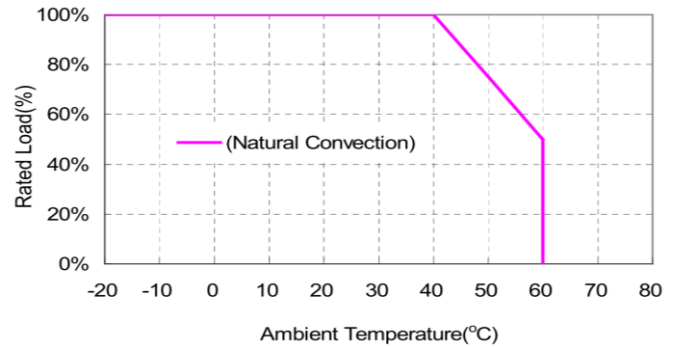
Isolation	Input to output = 3,000VAC
Operating Temperature	-20~60°C (see derating curve)
Storage Temperature	-20~85°C
Humidity	93% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	65KHz typ.
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 300K hrs min.
Altitude	3000m
Life time	Ambient 40degC 75% Load >3years
Dimensions	2.795x2.220x1.299Inches (71.00x56.40x33.00mm)
Weight	140g(0.31 Pounds)

Mechanical Specification

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



TRE25R Series Derating Curve



SAFETY AND EMC:

Emission and Immunity	EN55032 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, IEC/EN/UL62368-1/60950-1

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).