



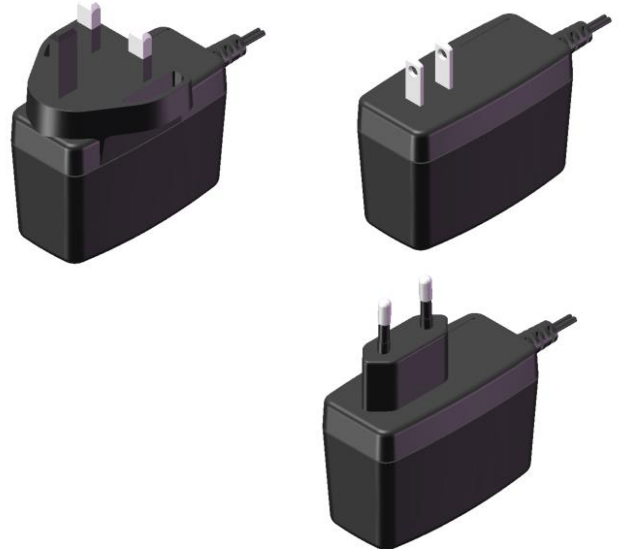
TRE25 SERIES

25W SWITCHING ADAPTER



Features

- * Miniature Size
- * Universal Input: 90~264Vac
- * 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)
(TRE25050: Output Cable Length $\leq$ 1220mm)



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	
				* 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.
TRE25050	5V	4A	50mVp-p	±2%	±1%	±6%	83.7%
TRE25090	9V	2.5A	1%	±2%	±1%	±5%	86.52%
TRE25120	12V	2.1A	1%	±2%	±1%	±5%	87.0%
TRE25150	15V	1.67A	1%	±2%	±1%	±3%	87.0%
TRE25180	18V	1.4A	1%	±2%	±1%	±2%	87.0%
TRE25240	24V	1.05A	1%	±2%	±1%	±2%	87.0%

Specifications are subject to change without notice.

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:

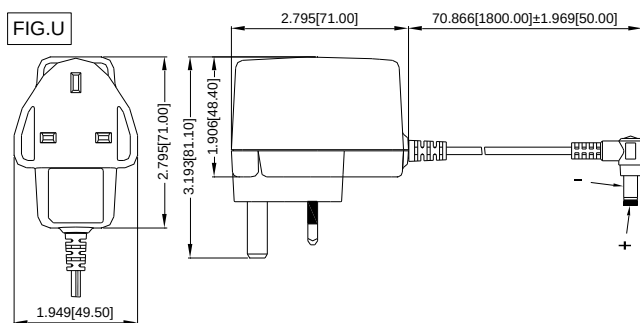
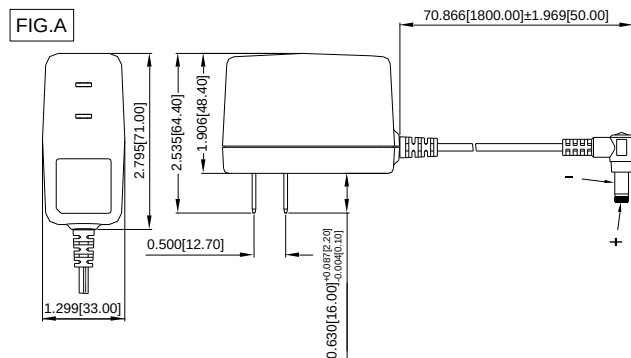
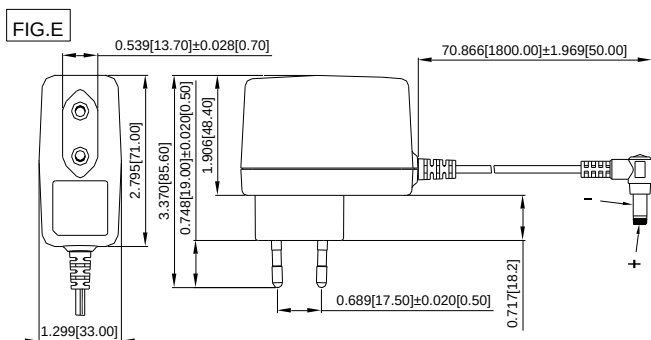
Holdup Time	10ms typ. @115Vac
Short Circuit Protection	Continuous(Auto Recovery)
Over Voltage Protection	IC Component to Clamp
Temperature Coefficient	$\pm 0.05\%/^{\circ}\text{C}$

GENERAL SPECIFICATIONS:

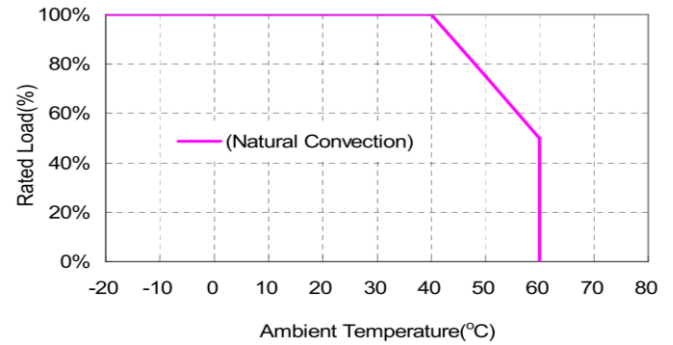
Isolation	Input to output = 3,000VAC
Operating Temperature	-20~60°C (see derating curve)
Storage Temperature	-20~85°C
Humidity	93% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	65KHz typ.
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 300Khrs min.
Altitude	3000m
Life time	Ambient 40degC 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 $\pm$ 0.02
Millimeters:X.XX $\pm$ 0.5



TRE25 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).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cincon:

[TRE25120-A-49G11-Level-VI](#) [TRE25120-E-11G13-Level-VI](#) [TRE25120-U-11G12-Level-VI](#) [TRE25150-E-11G02-Level-VI](#) [TRE25240-E-01G03-Level-VI](#) [TRE25180-A-12G03-Level-VI](#) [TRE25240-A-49G11-Level-VI](#) [TRE25120-A-36G12-Level-VI](#) [TRE25150-U-11G02-Level-VI](#) [TRE25120-A-39G12-Level-VI](#) [TRE25050-U-11G02-Level-VI](#) [TRE25120-A-01G03-Level-VI](#) [TRE25180-U-01G11-Level-VI](#) [TRE25150-E-11G12-Level-VI](#) [TRE25050-A-49G01-Level-VI](#) [TRE25150-A-12G01-Level-VI](#) [TRE25120-E-12G13-Level-VI](#) [TRE25120-A-02G02-Level-VI](#) [TRE25050-U-01G03-Level-VI](#) [TRE25180-U-12G03-Level-VI](#) [TRE25120-E-12G02-Level-VI](#) [TRE25240-A-02G12-Level-VI](#) [TRE25150-E-02G01-Level-VI](#) [TRE25240-E-01G12-Level-VI](#) [TRE25120-E-02G02-Level-VI](#) [TRE25120-A-35G01-Level-VI](#) [TRE25240-A-01G02-Level-VI](#) [TRE25240-E-02G02-Level-VI](#) [TRE25180-U-01G13-Level-VI](#) [TRE25120-A-40G13-Level-VI](#) [TRE25240-E-01G02-Level-VI](#) [TRE25120-U-01G03-Level-VI](#) [TRE25240-A-40G03-Level-VI](#) [TRE25180-U-01G03-Level-VI](#) [TRE25240-A-35G01-Level-VI](#) [TRE25120-U-01G13-Level-VI](#) [TRE25240-E-12G11-Level-VI](#) [TRE25180-U-11G13-Level-VI](#) [TRE25120-A-12G02-Level-VI](#) [TRE25240-U-02G11-Level-VI](#) [TRE25240-A-36G01-Level-VI](#) [TRE25240-A-49G02-Level-VI](#) [TRE25180-E-01G11-Level-VI](#) [TRE25120-E-02G12-Level-VI](#) [TRE25240-A-01G12-Level-VI](#) [TRE25120-U-02G01-Level-VI](#) [TRE25150-U-02G01-Level-VI](#) [TRE25050-A-02G12-Level-VI](#) [TRE25120-A-02G12-Level-VI](#) [TRE25150-U-11G13-Level-VI](#) [TRE25180-A-02G12-Level-VI](#) [TRE25050-A-12G01-Level-VI](#) [TRE25050-U-11G13-Level-VI](#) [TRE25050-E-02G11-Level-VI](#) [TRE25180-A-02G13-Level-VI](#) [TRE25050-U-02G11-Level-VI](#) [TRE25240-A-48G01-Level-VI](#) [TRE25050-E-12G12-Level-VI](#) [TRE25120-E-02G03-Level-VI](#) [TRE25050-A-39G03-Level-VI](#) [TRE25120-A-40G03-Level-VI](#) [TRE25050-A-11G12-Level-VI](#) [TRE25150-U-12G11-Level-VI](#) [TRE25120-U-11G01-Level-VI](#) [TRE25180-A-11G12-Level-VI](#) [TRE25120-A-36G01-Level-VI](#) [TRE25120-A-19G11-Level-VI](#) [TRE25240-A-12G01-Level-VI](#) [TRE25120-U-12G11-Level-VI](#) [TRE25240-U-12G01-Level-VI](#) [TRE25180-E-01G02-Level-VI](#) [TRE25120-A-39G11-Level-VI](#) [TRE25180-A-02G03-Level-VI](#) [TRE25050-E-02G12-Level-VI](#) [TRE25150-A-12G02-Level-VI](#) [TRE25240-U-01G01-Level-VI](#) [TRE25150-E-12G01-Level-VI](#) [TRE25050-A-36G03-Level-VI](#) [TRE25150-U-02G13-Level-VI](#) [TRE25150-E-11G01-Level-VI](#) [TRE25240-A-11G11-Level-VI](#) [TRE25180-E-12G03-Level-VI](#) [TRE25240-A-39G03-Level-VI](#) [TRE25120-U-12G03-Level-VI](#) [TRE25180-E-01G01-Level-VI](#) [TRE25180-A-02G02-Level-VI](#) [TRE25050-A-48G11-Level-VI](#) [TRE25150-A-11G11-Level-VI](#) [TRE25240-U-01G03-Level-VI](#) [TRE25120-A-19G13-Level-VI](#) [TRE25120-U-12G12-Level-VI](#) [TRE25240-U-12G02-Level-VI](#) [TRE25120-U-11G02-Level-VI](#) [TRE25050-A-35G02-Level-VI](#) [TRE25240-U-11G02-Level-VI](#) [TRE25050-A-40G11-Level-VI](#) [TRE25120-E-12G03-Level-VI](#) [TRE25180-A-01G01-Level-VI](#) [TRE25240-A-02G13-Level-VI](#) [TRE25150-U-02G02-Level-VI](#)