

## 25 Watt Switching Adapter Wall Mount, Series DVTRE25



### Features

- Universal Input Range: 90 – 264Vac
- High Efficiency up to 88%
- Class II
- No Load Input Power Consumption < 75mW
- Approval IEC/EN/UL 62368-1
- Approval EN55032 and CISPR/FCC Class B
- Operating Altitude 3000m
- Continuous Short Circuit Protection
- Over Voltage Protection
- Meets CoC Tier 2 and DOE Level VI

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT MAX. [ A ]	RIPPLE & NOISE [ mV ] Note 1	VOLTAGE ACCURACY [ % ] Note 2	LOAD REGULATION [ % ] Note 4	EFF. [ % ] Note 5	LOAD CAPACITANCE [ $\mu$ F ] Note 3
TRE25050	5	4	50	$\pm 2$	$\pm 6$	80	4000
TRE25090	9	2,5	90	$\pm 2$	$\pm 5$	87	2500
TRE25120	12	2,1	120	$\pm 2$	$\pm 5$	87	2100
TRE25150	15	1,67	150	$\pm 2$	$\pm 3$	88	1670
TRE25180	18	1,4	180	$\pm 2$	$\pm 2$	88	1400
TRE25240	24	1,05	240	$\pm 2$	$\pm 2$	88	1050

- Note:
1. Add a 0.1 $\mu$ F ceramic capacitor and a 10 $\mu$ F E.L. capacitor to output for ripple & noise measuring @20MHz BW.
  2. Voltage accuracy is set at 60% full load.
  3.  $V_{in}$ =115Vac and 230Vac, Output is max. load
  4. Load regulation measured from 60% to 100% full load and from 60% to 20% full load (60% $\pm$ 40% full load).
  5. Typical efficiency at 230Vac and 75% full load at 25°C.
  6. Typical at 25°C, nominal line and 75% load, unless otherwise specified.

### Ordering Information

Model		Output Voltage	DC Plug Type	Cable	DC Cable Length
TRE25	X	XXX	-XX	X	XX
25W I.T.E Adapter	A : USA 2 Pin E : Europe 2 Pin U : British 3 Pin	050 : 5V	STANDARD OUTPUT DC PLUG	UL1571 with OVP	01: 720mm
		090 : 9V			02: 1220mm
		120 : 12V			03: 1800mm
		150 : 15V			11: 720mm with Ferrite Core
		180 : 18V			12: 1220mm with Ferrite Core
		240 : 24V			13: 1800mm with Ferrite Core

Example:  
TRE25120-01E02, 25W, 12Vdc Output, DC Jack Type, Cable Length 1220mm

## INPUT SPECIFICATIONS:

Input Voltage Range.....	90-264Vac 120-370Vdc
Input Frequency Range.....	47 to 63Hz
Input Current.....	100% Load, Vin=100Vac 0,7A max.
Leakage Current.....	250µA max.
Under Voltage Protection.....	.60Vac min. - 75Vac max.
Inrush Current.....	Vin=240Vac, Cold start at 25°C 60A max.

## OUTPUT SPECIFICATIONS:

Hold-up Time.....	Vin 115Vac 10mS typ.
Line Regulation.....	Vin=High line to low line, full load ±1.0% max.
Over Voltage Protection.....	Auto recovery IC Component to Clamp
Over Current Protection.....	Auto recovery 110% min. - 140% max.
Short Circuit Protection.....	Auto recovery Continuous

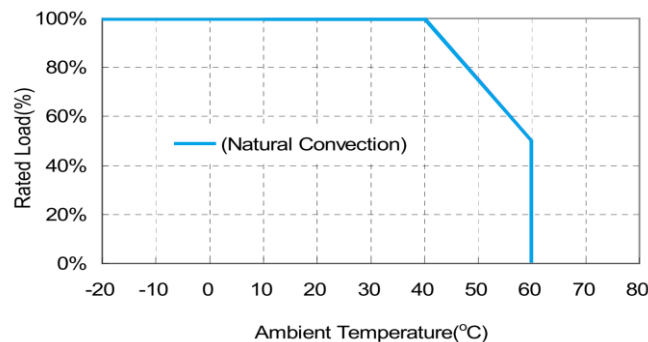
## GENERAL SPECIFICATIONS:

Isolation Input to Output.....	1 minute (without dielectric breakdown) 3000VAC max.
Isolation Resistance.....	Input to output 100 MΩ min.
Switching Frequency.....	65KHz typ.
Operating Temperature Range.....	see derating curve -20°C to +60°C
Storage Temperature Range.....	-20°C to +85°C
Humidity.....	Non condensing 93% RH max.
Cooling.....	Natural Convection
MTBF.....	Io=100%; Ta=25°C per MIL-HDBK-217F 300Khrs min.
Altitude.....	3000m max.
Shock.....	MIL-STD-810F Table 516.5 75g typ.
Vibration.....	MIL-STD-810F Table 514.5C-VIII 4g typ
Dimensions.....	71,00 x 48,40 x 33,00 mm
Weight.....	140g typ.

## SAFETY & EMC:

Safety.....	Class II, IEC 62368-1:2014, EN 62368-1:2014/A11:2017, UL 62368-1, 2nd Edition
EMC Emission.....	EN55032:2015+AC:2016, EN61000-3-2:2014, EN6100-3-3:2013, FCC CFR 47 Part 15
Conducted Disturbance.....	EN55032 Class B
Radiated Disturbance.....	EN55032 Class B
Harmonic Current Emissions.....	EN 61000-3-2
Voltage Fluctuations & Flicker.....	EN 61000-3-3
EMC Immunity.....	EN 55024:2010+A1:2015, EN 61204-3, EN 61000-6-1,3, EN 61000-3-2:2014, EN 61000-3-3:2013
Electrostatic Discharge (ESD).....	IEC 61000-4-2:2008, Air Discharge: ±8kV Contact Discharge: ±4kV
Radio-Frequency, Continuous, Radiated Disturbance.....	IEC 61000-4-3
Electrical Fast Transient (EFT).....	IEC 61000-4-4:2012, ±1kV
Surge.....	IEC 61000-4-5 2014+A1:2017, L-N ±0.5kV, ±1kV
Conducted Disturbances, Induced by RF Fields.....	IEC 61000-4-6
Power Frequency Magnetic Field.....	IEC 61000-4-8
Voltage Dips.....	IEC 61000-4-11:2004+A1:2017, Dips:30% reduction, Dips: >95% Reduction
Voltage Interruptions.....	IEC 61000-4-11:2004+A1:2017, >95% Reduction

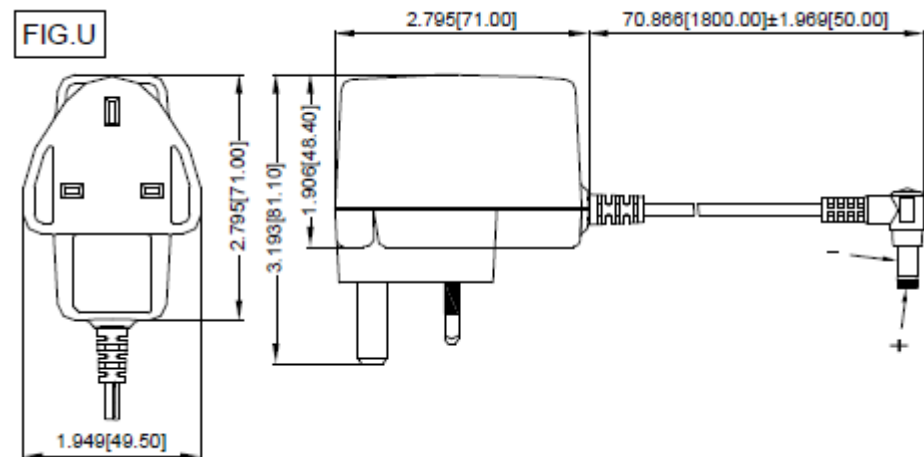
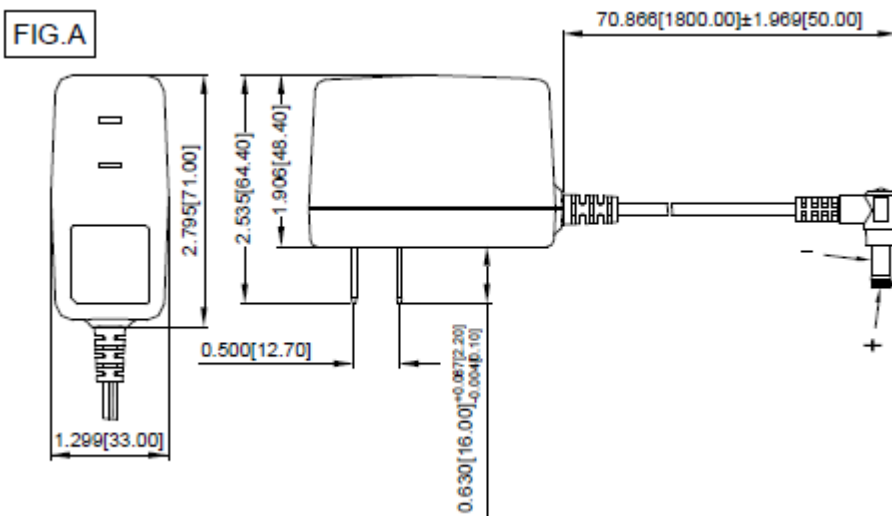
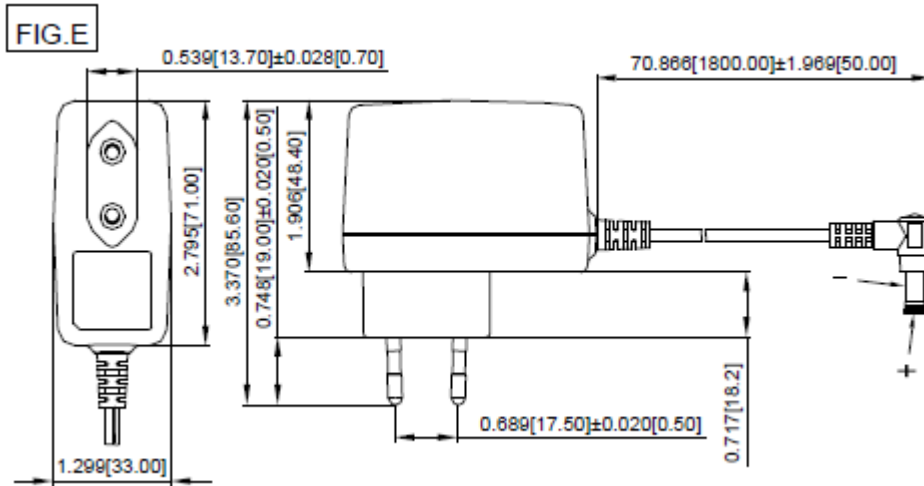
## Derating Curve



# Mechanical Specification

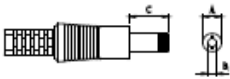
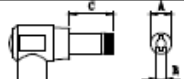
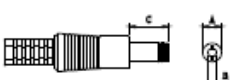
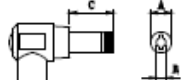
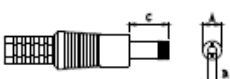
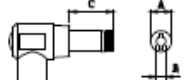
# Series DVTRE25

All Dimensions in Inches (mm); Tolerance: Inches: x.xxx=±0.02, mm: x.xx=±0.5



Technische Änderungen vorbehalten / Specifications are subject to change without notice

# STANDARD OUTPUT DC PLUG

DC Plug Type	Cable Number-XXXXX	A	B	C	Cable Type	Cable Length	Cable AWG
		OD (mm)	ID (mm)	L (mm)			
 Straight/Inner+Outer- + ● - -	11G03	Φ5.5	Φ2.1	12	UL1571	1800mm without Core	20AWG for 12V,15V,18V,24V
	12G03	Φ5.5	Φ2.5	12			
	23G03	Φ5.5	Φ2.1	9.5			
	26G03	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● - -	01G03	Φ5.5	Φ2.1	12			
	02G03	Φ5.5	Φ2.5	12			
	21G03	Φ5.5	Φ2.5	9.5			
	24G03	Φ5.5	Φ2.1	9.5			
 Straight/Inner+Outer- + ● - -	11G03	Φ5.5	Φ2.1	12	UL1571	1800mm without Core	18AWG for 9V
	12G03	Φ5.5	Φ2.5	12			
	23G03	Φ5.5	Φ2.1	9.5			
	26G03	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● - -	01G03	Φ5.5	Φ2.1	12			
	02G03	Φ5.5	Φ2.5	12			
	21G03	Φ5.5	Φ2.5	9.5			
	24G03	Φ5.5	Φ2.1	9.5			
 Straight/Inner+Outer- + ● - -	11G02	Φ5.5	Φ2.1	12	UL1571	1220mm without Core	16AWG for 5V
	12G02	Φ5.5	Φ2.5	12			
	23G02	Φ5.5	Φ2.1	9.5			
	26G02	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● - -	01G02	Φ5.5	Φ2.1	12			
	02G02	Φ5.5	Φ2.5	12			
	21G02	Φ5.5	Φ2.5	9.5			
	24G02	Φ5.5	Φ2.1	9.5			

Other DC Plug Type on request