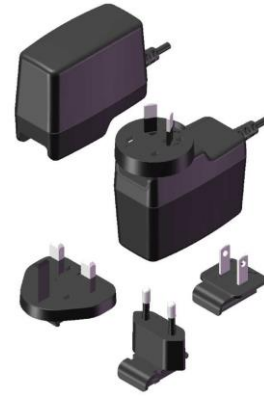




## 15 Watt Switching Adapter Wall Mount, Series DVTRE15R



### Features

- Universal Input Range: 90 – 264Vac
- High Efficiency up to 86%
- Interchangeable AC Plugs
- Class II
- No Load Power Consumption < 75mW
- Approved IEC/EN/UL 62368-1
- Meets EN55032 Class B and CISPR/FCC Class B
- Operating Altitude 5000m
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meets CoC Tier 2 & DoE Level VI

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT MAX. [ A ]	RIPPLE & NOISE [ mVp-p ] (NOTE2)	VOLTAGE ACCURACY [ % ] (NOTE1)	LOAD REGULATION [ % ] (NOTE4)	EFF. [ % ] (NOTE5)	LOAD CAPACITANCE [ μF ] (NOTE3)
TRE15R050	5	2,0	50	±2	±4	79	2000
TRE15R090	9	1,4	90	±2	±2	84	1500
TRE15R120	12	1,0	100	±2	±2	83	1000
TRE15R150	15	1,0	100	±2	±2	85	1000
TRE15R240	24	0,63	100	±2	±2	86	660

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

Ordering Information					
Model	Output	AC Plug Type	DC Plug Type	Cable	DC Cable Length
TRE15R	XXX	-XXXX	-XX	X	XX
15W I.T.E Adapter	050 : 5V	-ASUE : Include 4 Type	STANDARD OUTPUT DC PLUG	E: UL1571 with OVP	01: 720mm
	090 : 9V				02: 1220mm
	120 : 12V	03: 1800mm			
	150 : 15V	11: 720mm with Ferrite Core			
	240 : 24V	12: 1220mm with Ferrite Core			
		Blank : Order Separately AC Adapter A: American type S: Australian type U: U.K. type E: European type			13: 1800mm with Ferrite Core

Example:

TRE15R120-01G03, 12Vdc Output, DC Jack Type, Cable Length 1800mm

TRE15R120-ASUE-01G03, 12Vdc Output, Include 4 Type AC Plug, DC Jack Type, Cable Length 1800mm

Technische Änderungen vorbehalten / Specifications are subject to change without notice

## INPUT SPECIFICATIONS:

Input Voltage Range.....	90-264Vac
Frequency.....	47 to 63Hz
Input Current.....	0,5A max.
Inrush Current.....	Vin=240Vac, Cold start at 25°C ..... 50A max.
Leakage Current.....	250µA max.

## OUTPUT SPECIFICATIONS:

Hold-up Time.....	Vin = 115Vac.....	10mS typ.
Line Regulation.....	Vin=100Vac to 240Vac.....	±1.0% max.
Over Voltage Protection.....	Auto Recovery.....	IC Component to Clamp
Over Current Protection.....	Auto Recovery.....	110% min / 160% max.
Short Circuit Protection.....	Auto Recovery.....	Continuous
Temperature Coefficient.....		±0.05% / °C

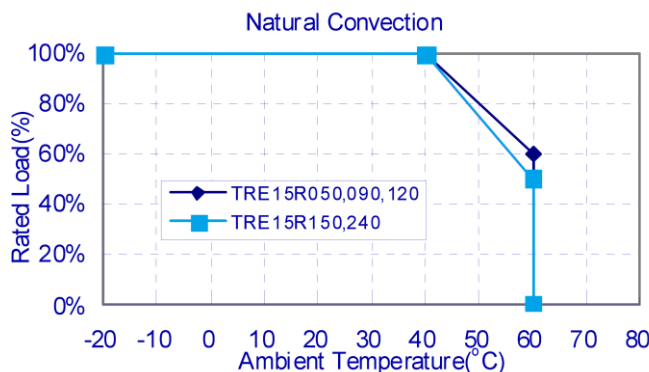
## GENERAL SPECIFICATIONS:

Isolation Input to Output.....	1 minute.....	3000VAC max.
Isolation Resistance.....	Input to Output.....	100 MΩ min.
Switching Frequency.....	Vin=230Vac, Io=100%.....	65KHz typ.
Operating Case 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.....	330Khrs min.
Altitude.....		5000m max.
Shock.....	MIL-STD-810F Table 516.5.....	75g typ.
Vibration.....	MIL-STD-810F Table 514.5C-VIII.....	4g typ
Dimensions.....		71,00 x 56,40 x 33,00 mm
Weight.....		100g typ.

## SAFETY & EMC:

Safety.....	Class II, IEC/EN/UL 62368-1/60950-1
EMC Emission.....	EN 55032: 2015/AC: 2016, EN 61000-3-2:2014, EN 61000-3-3:2013, FCC CFR Title 47 Part 15 Subpart B Class B
Conducted Disturbance.....	EN 55032:2015/AC:2016, EN 61000-6-3, EN 61204-3, FCC CFR Title 47 Part 15 Subpart B: 2016 Class B
Radiated Disturbance.....	EN 55032:2015/AC:2016, EN 61000-6-3, EN 61204-3, FCC CFR Title 47 Part 15 Subpart B: 2016 Class B
Harmonic Current Emissions.....	EN 61000-3-2
Voltage Fluctuations & Flicker.....	EN 61000-3-3
EMC Immunity.....	EN 61204-3: 2000, EN 55024:2010+A1:2015, EN 61000-6-1, 3, IEC 61000-4-2, 3, 4, 5, 6, 8, 11
Electrostatic Discharge (ESD).....	IEC 61000-4-2 Ed. 2.0: 2008, Air Discharge: ±8kV, Contact Discharge: ±4kV
Radio-Frequency, Continuous, Radiated Disturbance.....	IEC 61000-4-3
Electrical Fast Transient (EFT).....	IEC 61000-4-4
Surge.....	IEC 61000-4-5 Ed. 3.0: 2014, L-N: ±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 Ed. 2.0: 2004, Dips: 30% Reduction, Dips: >95% Reduction
Voltage Interruptions.....	IEC 61000-4-11 Ed. 2.0: 2004, >95% reduction

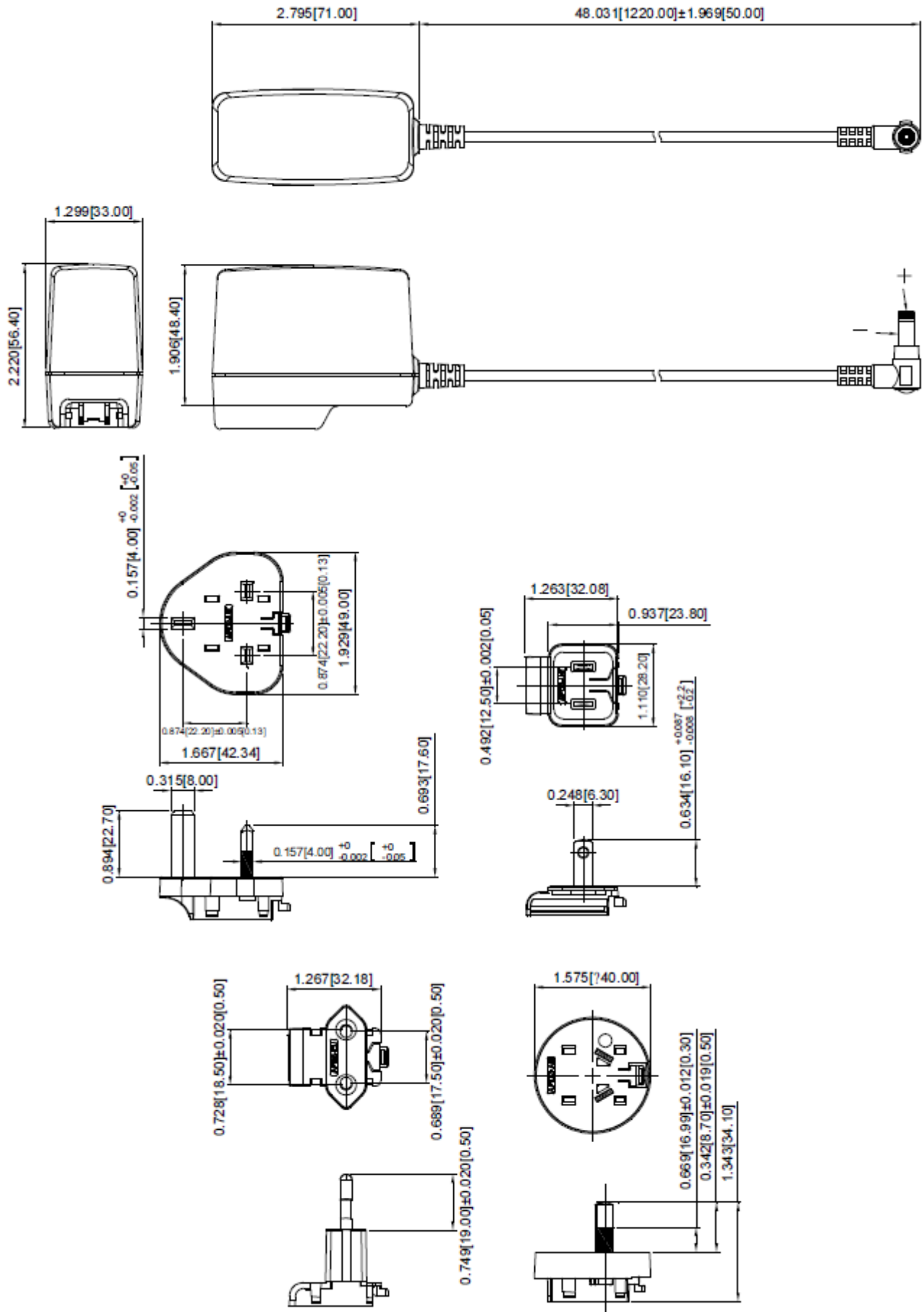
## Derating Curve



# Mechanical Specification



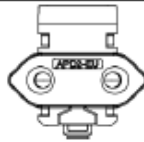

# Series DVTRE15R

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

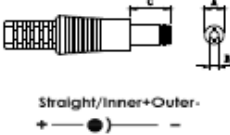
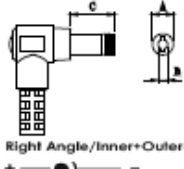


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**INTERCHANGEABLE AC PLUG****Series DVTRE15R**

TYPE				
	U.K type (U)	American type (A)	European type (E)	Australian type (S)

**STANDARD DC OUTPUT PLUG****Series DVTRE15R**

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

Other DC Plug Type on request