



25 Watt Switching Adapter Wall Mount, Series DVTRE25RD



Features

- Universal Input Range: 90 – 264Vac
- High Efficiency up to 88%
- Interchangeable AC Plugs
- No Load Power Consumption <75mW
- Over Voltage Protection
- Continuous Short Circuit Protection
- Operating Altitude 3000m
- Approval IEC/EN/UL62368-1
- Safety Class II
- Approval EN55032 Class B and CISPR/FCC Class B
- Meet CoC Tier 2 & DoE Level VI

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [A]	RIPPLE & NOISE Note 1	VOLTAGE ACCURACY [%] Note 2	LOAD CAPACITANCE [μ F] Note 3	LOAD REGULATION [%] Note 4	EFF. MIN. [%] Note 5
TRE25RD050	5	4,0	50mV	\pm 2	4000	\pm 6	80
TRE25RD090	9	2,5	90mV	\pm 2	2500	\pm 5	87
TRE25RD120	12	2,1	120mV	\pm 2	2100	\pm 5	87
TRE25RD150	15	1,67	150mV	\pm 2	1670	\pm 3	88
TRE25RD180	18	1,4	180mV	\pm 2	1400	\pm 2	88
TRE25RD240	24	1,05	240mV	\pm 2	1050	\pm 2	88

- Note:
1. Add a 0.1 μ F ceramic capacitor and a 10 μ F E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
 2. Voltage setpoint at 60% full load.
 3. V_{in} =115Vac and 230Vac, Output is max. load
 4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
 5. Typical efficiency at 230Vac and 75% full load at 25°C. .
 6. V_{in} =115Vac and 230Vac, T_c =25°C
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	Case Color
TRE25RD	XXX	-XXXX	-XX	G	XX	-XX-BK
	050 : 5V	-ASUE : Include 4 Type			02: 1220mm	BK-BK :
	090 : 9V	Blank : Order Separately AC			03: 1800mm	Black-Black
	120 : 12V	Adapter	STANDARD	UL1571	03: 1800mm	BE-BK:
	150 : 15V	A: American type	OUTPUT DC	with OVP	03: 1800mm	Blue-Black
	180 : 18V	S: Australian type	PLUG		03: 1800mm	RD-BK :
	240 : 24V	U: U.K. type			03: 1800mm	Red-Black
		E: European type				

Example:

TRE25RD240-11G03-BK-BK :

24Vdc Output, AC Plug Separately , DC Plug Type 11, Cable Length 1800mm without Core, Case Color Black-Black

TRE25RD050-ASUE-12G02-BE-BK :

5Vdc Output, Include 4 Type, DC Plug Type 12, Cable Length 1220mm without Core, Case Color Blue-Black

Technische Änderungen vorbehalten / Specifications are subject to change without notice

INPUT SPECIFICATIONS:

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

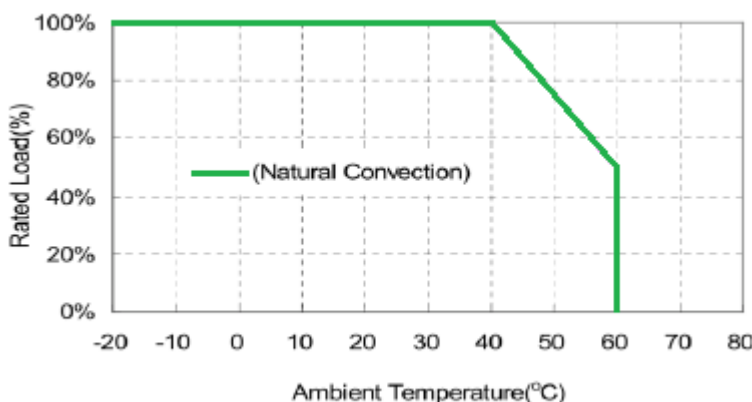
GENERAL SPECIFICATIONS:

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		72,00 x 57,00 x 33,00 mm
Weight		140g typ.

SAFETY & EMC:

Safety	Class II, IEC/EN/UL62368-1
EMC Emission	EN55032, EN61000-3-2, EN6100-3-3, 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, EN 61204-3, IEC 61000-4-2, 3, 4, 5, 6, 8, 11
Electrostatic Discharge (ESD)	IEC 61000-4-2, 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, 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, Dips:30% reduction, Dips: >95% Reduction
Voltage Interruptions	IEC 61000-4-11, >95% Reduction

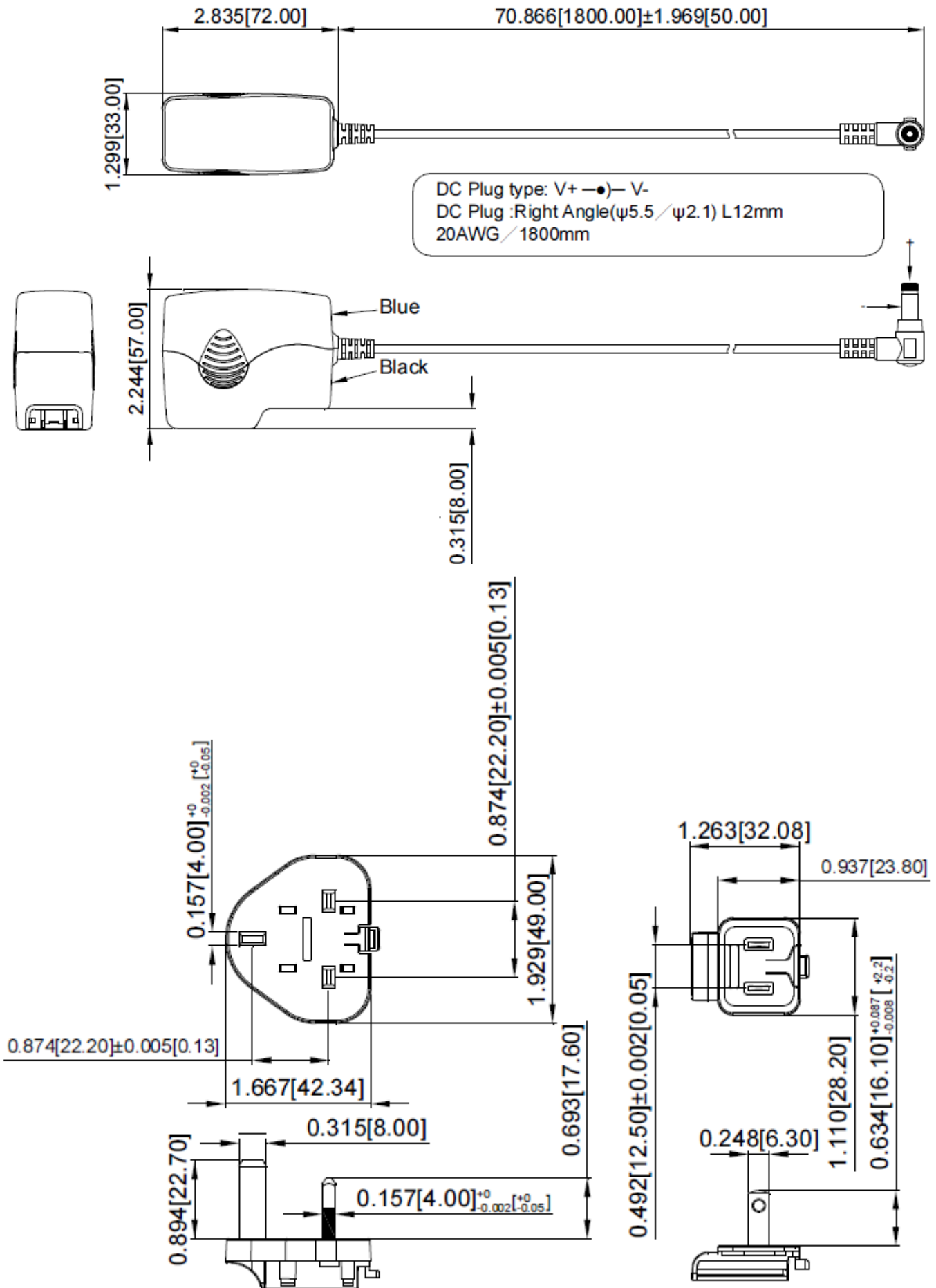
Derating Curve



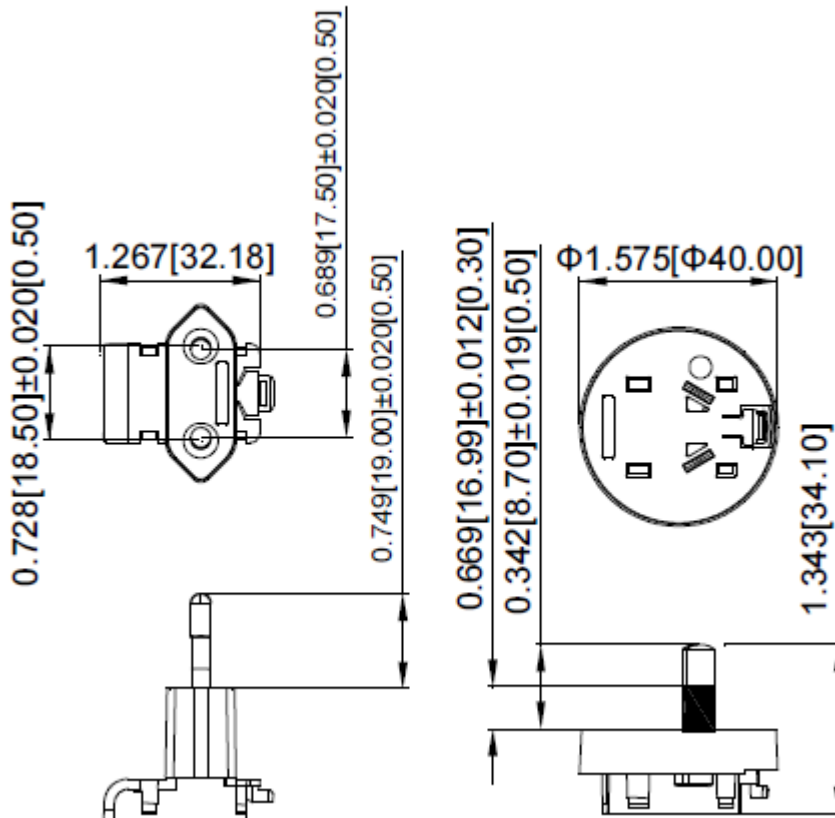
Mechanical Specification

Series DVTRE25RD

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



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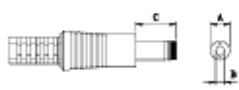
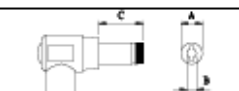
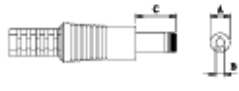
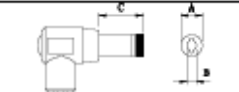
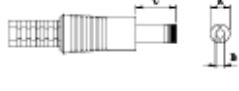
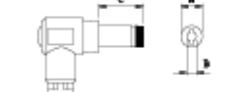


INTERCHANGEABLE PLUG for

Series DVTRE25R

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

STANDARD OUTPUT DC PLUG

DC Plug Type	DC Plug G Cable Length Number	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