



## 36 Watt Switching Adapter Desk Top, Series DVTRE36



### Features

- Universal Input Range 90-264VAC
- High Efficiency up to 89%
- 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 [ A ]	RIPPLE & NOISE [ mVp-p ] NOTE1	VOLTAGE REGULATION [ % ] NOTE2	LOAD REGULATION [ % ] NOTE4	EFF. TYP. [ % ] NOTE5	LOAD CAPACITANCE MAX. [ µF ] NOTE3
TRE36A050	5	5,0	100	±2	±6	83	5000
TRE36A090	9	3,3	120	±2	±4	87	3300
TRE36A120	12	2,5	120	±2	±2	88	2500
TRE36A135	13,5	2,4	130	±2	±2	89	2400
TRE36A150	15	2,4	150	±2	±3	88	2400
TRE36A180	18	2,0	180	±2	±2	88	2000
TRE36A240	24	1,5	240	±2	±2	88	1500
TRE36A360	36	1,0	360	±2	±2	89	1000
TRE36A480	48	0,75	480	±2	±2	89	750

#### NOTE:

1. Voltage accuracy is set at 60% full load.
2. Add a 0.1µF ceramic capacitor and a 10µF 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	DC Plug Type	Cable	DC Cable Length
TRE36A	XXX	-XX	X	XX
36W I.T.E Adapter	050 : 5V	STANDARD OUTPUT DC PLUG	G: UL1571 with OVP E: UL1185 with OVP	01: 720mm 02: 1220mm 03: 1800mm 11: 720mm with Ferrite Core 12: 1220mm with Ferrite Core 13: 1800mm with Ferrite Core
	090 : 9V			
	120 : 12V			
	135 : 13,5V			
	150 : 15V			
	180 : 18V			
	240 : 24V			
	360 : 36V			
480 : 48V				

Example:

TRE36A120-01G03, 12Vdc Output, DC Jack Type, Cable Length 1800mm

Technische Änderungen vorbehalten / Technical change reserved without notice

## INPUT SPECIFICATIONS:

Input Voltage Range.....	90-264Vac
	120 – 370Vdc
Input Frequency Range.....	47 to 63Hz
Input Current.....	100% Load, Vin=100Vac ..... 0,9A max.
Leakage Current.....	250µA max.
Inrush Current.....	Vin=240Vac, Cold start at 25°C ..... 100A max.

## OUTPUT SPECIFICATIONS:

Hold-up Time.....	Vin 115Vac ..... 10mS typ.
Line Regulation.....	From 100Vac to 240Vac with 100% full load ..... ±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

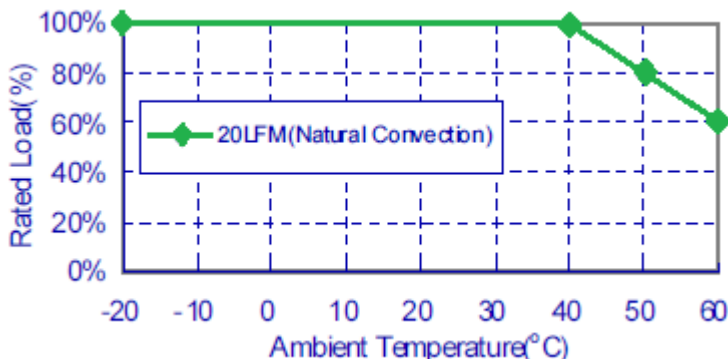
## GENERAL SPECIFICATIONS:

Isolation.....	Input to Output , 1 minute ..... 4000VAC max.
Isolation Resistance.....	Input to output ..... 100 MΩ min.
Switching Frequency.....	..... 65KHz typ.
Operating Temperature Range.....	see derating curve ..... -30°C to +60°C
Storage Temperature Range.....	..... -30°C to +85°C
Humidity.....	Non condensing ..... 93% RH max.
Cooling.....	..... Natural Convection
MTBF.....	Io=100%; Ta=25°C per MIL-HDBK-217F ..... 400Khrs min.
Altitude.....	..... 5000m max.
Shock.....	MIL-STD-810F Table 516.5 ..... 75g typ.
Vibration.....	MIL-STD-810F Table 514.5C-VIII ..... 4g typ
Dimensions.....	..... 100 x 45 x 22,50 mm
Weight.....	..... 150g typ.

## SAFETY & EMC:

Safety.....	..... Class II, IEC/EN/UL 62368-1/60950-1
EMC Emission.....	EN 55032:2015 Class B, EN 61000-3-2:2014, EN 6100-3-3:2013, EN 61000-6-3:2007+A1:2011 EN 61000-6-4:2007+A1:2011+AC:2012, CISPR PUB. 22, FCC Part 15 Subpart B
Conducted Disturbance.....	EN 55032:2015, EN 61000-6-3:2007+A1:2011, EN 61000-6-4:2007+A1:2011+AC:2012, Class B CISPR PUB. 22, FCC Part 15 Subpart B
Radiated Disturbance.....	EN 55032:2015, EN 61000-6-3:2007+A1:2011, EN 61000-6-4:2007+A1:2011+AC:2012 FCC Part 15 Subpart B, Class B
Harmonic Current Emissions.....	..... EN 61000-3-2
Voltage Fluctuations & Flicker.....	..... EN 61000-3-3
EMC Immunity.....	EN 61000-6-1:2007, EN 61000-6-2:2005+AC:2005, EN 61204-3:2000, EN 55024:2010+A1:2015 IEC 61000-4-2, 3, 4, 5, 6, 8, 11
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
Surge.....	..... IEC61000-4-5
Conducted Disturbances, Induced by RF Fields.....	..... IEC 61000-4-6
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

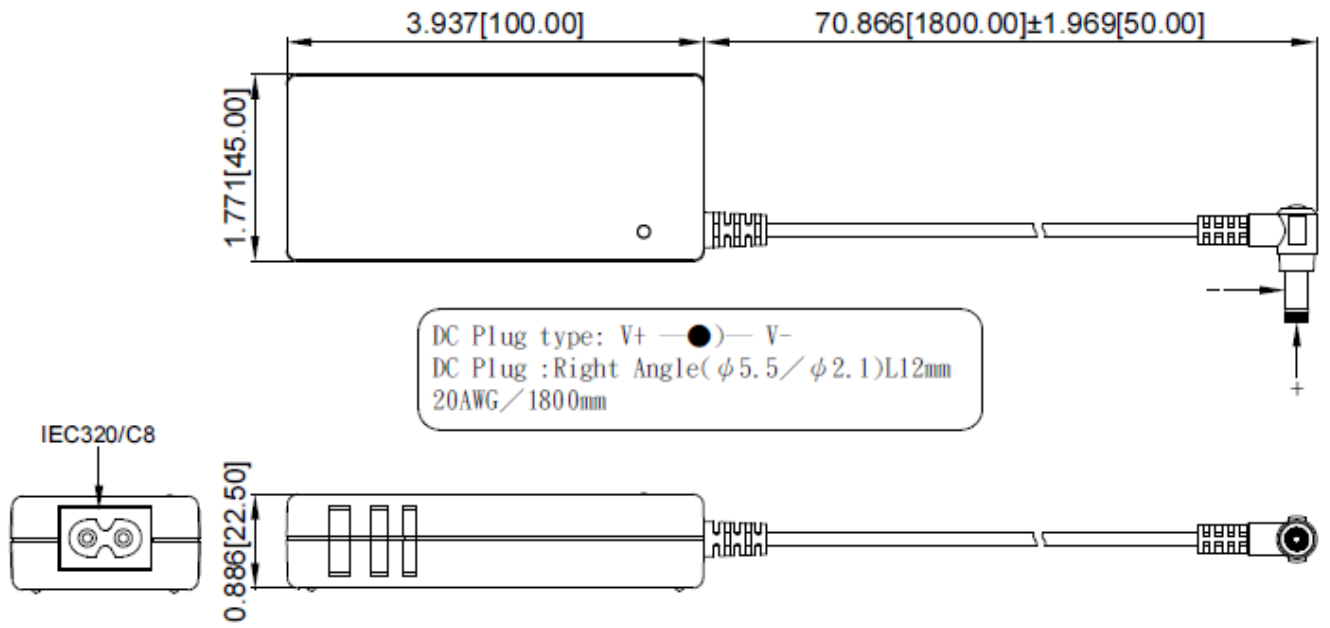


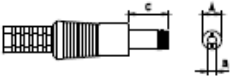
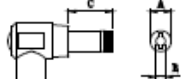
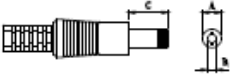
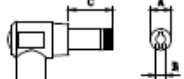
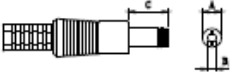
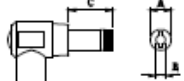
# MECHANICAL SPECIFICATION

# Series DVTRE36

All dimensions in Inches [ mm ]

Tolerance: mm: x.xx=±0.5, Inches: x.xxx=±0.02



DC Plug Type	Cable Number- XXXXX	A	B	C	Cable Type	Cable Length	Cable AWG
		OD (mm)	ID (mm)	L (mm)			
 Straight/Inner+Outer- + ● - -	11G02	Φ5.5	Φ2.1	12	UL1571	1220mm without Core	16AWG for Vo: 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			
 Straight/Inner+Outer- + ● - -	11G03	Φ5.5	Φ2.1	12	UL1571	1800mm without Core	18AWG for Vo: 9V, 12V, 13.5V 20AWG for Vo: 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- + ● - -	11E03	Φ5.5	Φ2.1	12	UL1185	1800mm without Core	20AWG for Vo: 36V, 48V
	12E03	Φ5.5	Φ2.5	12			
	23E03	Φ5.5	Φ2.1	9.5			
	26E03	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● - -	01E03	Φ5.5	Φ2.1	12			
	02E03	Φ5.5	Φ2.5	12			
	21E03	Φ5.5	Φ2.5	9.5			
	24E03	Φ5.5	Φ2.1	9.5			

Other DC Plug Type on request