



# TRE36 SERIES

## 36W SWITCHING ADAPTER



### Features

- \* Universal Input Range 90~264VAC
- \* Meets EN55032 Class B and CISPR/FCC Class B
- \* Approved IEC62368-1, UL62368-1, EN62368-1
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* Meet CoC Tier 2 & DoE Level VI  
(Output Cable Length  $\leq$  1800mm)  
(TRE36A050: Output Cable Length  $\leq$  1220mm)
- \* No Load Power Consumption < 75mW
- \* Class II



### Ordering information

TRE36AXXX	-XX	X	XX
Model No.	DC Plug Type	G: UL1571 WITH OVP E: UL1185 WITH OVP	DC Cable Length and Type
			01: 720mm 02: 1220mm 03: 1800mm 11: 720mm with Ferrite Core 12: 1220mm with Ferrite Core 13: 1800mm with Ferrite Core
			* 16AWG / UL1571 or Equivalent for Vo: 5V * 18AWG / UL1571 or Equivalent for Vo: 9V, 12V, 13.5V * 20AWG / UL1571 or Equivalent for Vo: 15V, 18V, 24V * 20AWG / UL1185 or Equivalent for Vo: 36V, 48V

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
TRE36A050	5V	5.0A	100mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	85%
TRE36A090	9V	3.3A	120mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	88%
TRE36A120	12V	2.5A	120mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A135	13.5V	2.4A	130mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A150	15V	2.4A	150mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A180	18V	2.0A	180mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A240	24V	1.5A	240mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A360	36V	1.0A	360mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRE36A480	48V	0.75A	480mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%

Specifications are subject to change without notice.

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.9A max.  
 Inrush Current ..... Cold start@25°C ..... 100A max. @240Vac  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Hiccup Mode Continuous(Auto Recovery)  
 Over Voltage Protection ..... IC Component to Clamp(Auto Recovery)  
 Temperature Coefficient ..... ±0.05%/°C

### GENERAL SPECIFICATIONS:

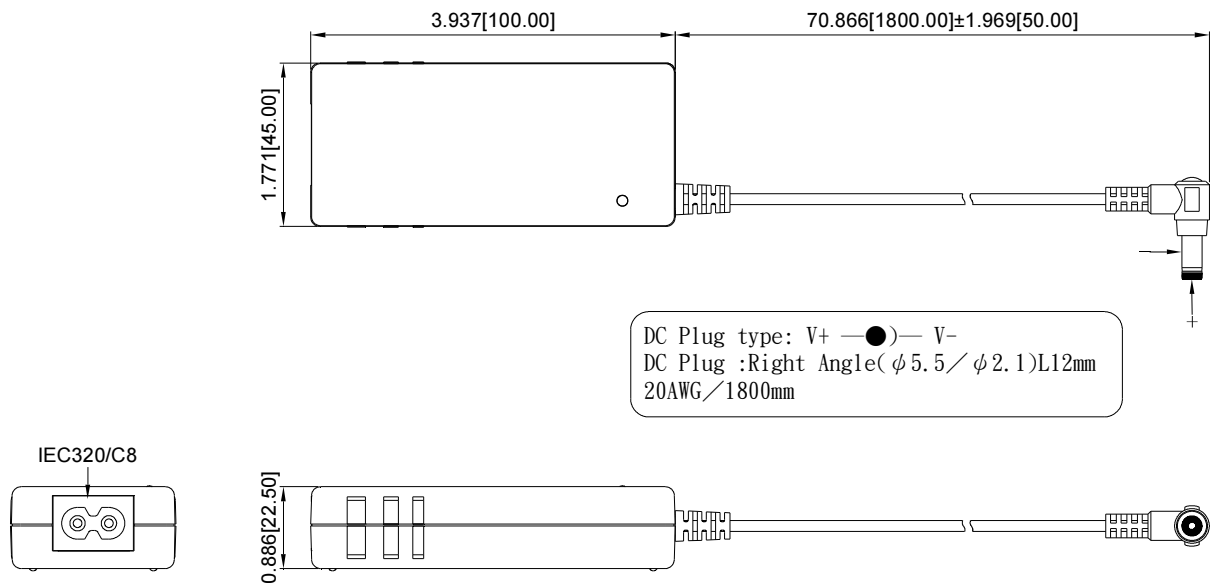
Isolation ..... Input to output 3,000VAC  
 Operating Temperature ..... -20 ~ 60°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 65KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 860Khrs max.  
 Altitude ..... 5000m  
 Dimensions ..... 3.937x1.771x0.886 inches (100.00x45.00x22.50mm)  
 Weight ..... 150g(0.33 Pounds)

### SAFETY AND EMC:

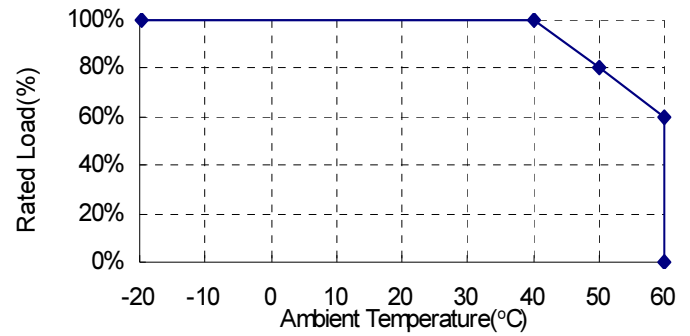
Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B  
 EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4  
 EN61000-3-2, EN61000-3-3, EN55024, EN61204-3  
 Safety ..... Class II, IEC62368-1/60950-1  
 UL62368-1/60950-1, EN62368-1/60950-1

### Mechanical Specification

All Dimensions are in inches[mm]  
 Tolerance:Inches:X.XXX±0.02  
 Millimeters:X.XX±0.5



## TRE36 Series Derating Curve



### 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 is measured from 100Vac to 240Vac full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
5. Efficiency measured at 75% load and input voltage is 230Vac.