



E-Star Power Development Co., Ltd. (E-STAR)  
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**36W Desktop single power supply < TRE36**



**Features**

- \* Universal Input Range 90~264VAC
- \* Meets EN55032 Class B and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* No Load Power Consumption < 75mW
- \* Approved IEC/EN/UL 62368-1
- \* Meet CoC Tier 2 & DoE Level VI
- \* Class II  
 (Output Cable Length ≤ 1800mm)  
 (TRE36A050: Output Cable Length ≤ 1220mm)



**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

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	±2%	±1%	±6%	85%
TRE36A090	9V	3.3A	120mVp-p	±2%	±1%	±4%	88%
TRE36A120	12V	2.5A	120mVp-p	±2%	±1%	±2%	89%
TRE36A135	13.5V	2.4A	130mVp-p	±2%	±1%	±2%	89%
TRE36A150	15V	2.4A	150mVp-p	±2%	±1%	±2%	89%
TRE36A180	18V	2.0A	180mVp-p	±2%	±1%	±2%	89%
TRE36A240	24V	1.5A	240mVp-p	±2%	±1%	±2%	89%
TRE36A360	36V	1.0A	360mVp-p	±2%	±1%	±2%	89%
TRE36A480	48V	0.75A	480mVp-p	±2%	±1%	±2%	89%

Specifications are subject to change without notice.



**36W Desktop single power supply < TRE36**

**Specifications**

**INPUT SPECIFICATIONS:**

Voltage ..... 90~264Vac  
 ..... 120~370Vdc  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.9A max.  
 Inrush Current ..... Cold start@25°C ..... 100A max. @240Vac  
 Leakage Current ..... 0.25mA max.

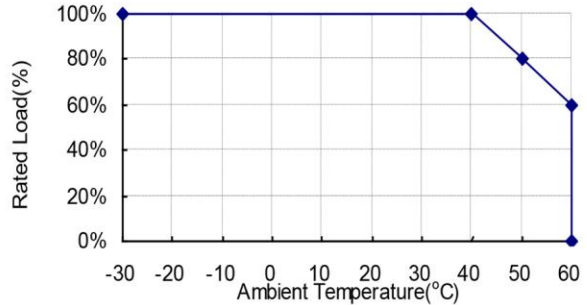
**OUTPUT SPECIFICATIONS:**

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 ..... -30 ~ 60°C (see derating curve)  
 Storage Temperature ..... -30~85°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)

**TRE36 Series Derating Curve**



**SAFETY AND EMC:**

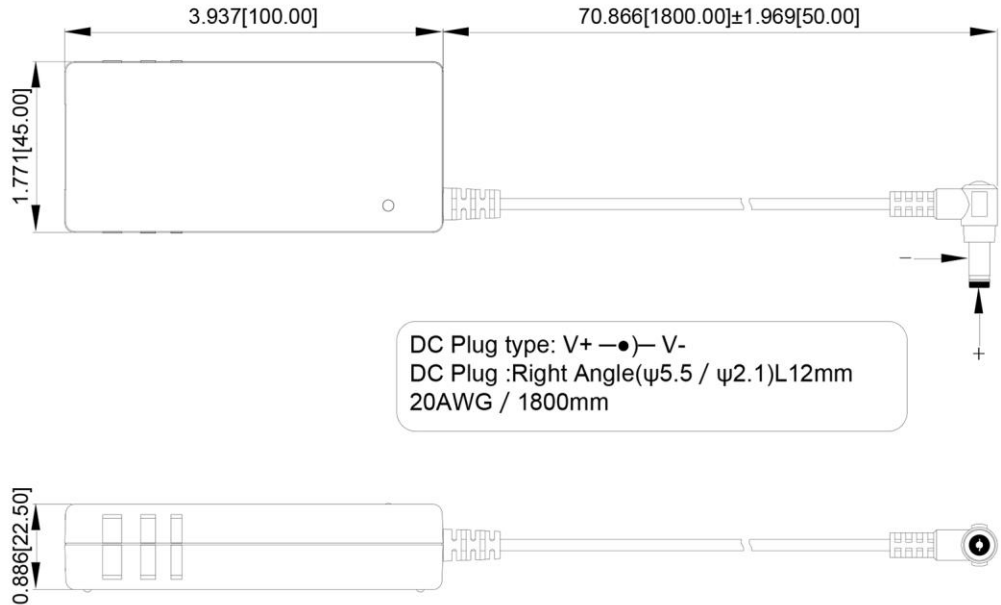
Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B  
 EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4  
 EN61000-3-2, EN61000-3-3, EN55024, EN61204-3  
 Safety ..... Class II, IEC/EN/UL 62368-1, IEC/EN/UL 60950-1

**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.

**Mechanical Specification**

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



Typical at 25°C, nominal line and 75% load, unless otherwise Specified