



E-Star Power Development Co., Ltd. (E-STAR)  
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**6W Wall Mount power supply < TRE06**



**Features**

- \* Miniature Size
  - \* Universal Input: 90~264Vac
  - \* Meets EN55032 Class B and CISPR/FCC Class B
  - \* Continuous Short Circuit Protection
  - \* No Load Power Consumption<75mW
  - \* Constant Current (Optional)
  - \* Optional US&EU AC Plugs
  - \* Approved IEC/UL 62368-1
  - \* Meet CoC Tier 2 & DoE Level VI
  - \* Class II
- (Output Cable Length ≤ 1800mm)



**Ordering information**

TRE06XXX-	X	XX	X	XX
Model No.	AC Plug Type	DC Plug Type	OVP	DC Cable Length and Type
	A: USA 2 Pin		A: Without OVP	01: 720mm
	E: Europe 2 Pin			02: 1220mm
				03: 1800mm
				11: 720mm with Ferrite Core
				12: 1220mm with Ferrite Core
				13: 1800mm with Ferrite Core
			* 22AWG for 5V, UL2468	
			* 24AWG for 9V 12V 15V, UL2468	

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. NOTE 5
TRE06S050	5V	1200mA	100mVp-p	±4%	±1%	±3%	77.79%
TRE06S090	9V	650mA	100mVp-p	±3%	±1%	±2%	81.39%
TRE06S120	12V	500mA	120mVp-p	±3%	±1%	±2%	81.57%
TRE06S150	15V	400mA	120mVp-p	±3%	±1%	±2%	82.61%



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**Specifications**

**INPUT SPECIFICATIONS:**

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

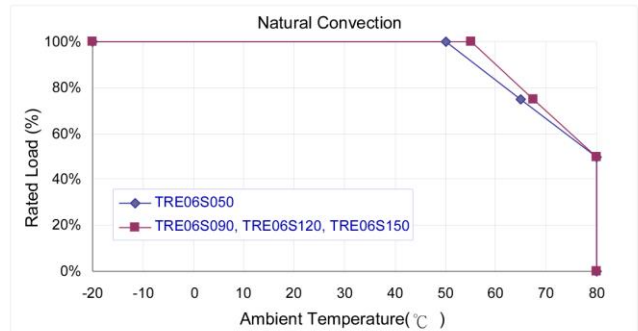
**OUTPUT SPECIFICATIONS:**

Holdup Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Hiccup Mode Continuous (Auto Recovery)  
 Temperature Coefficient ..... ±0.05%/°C

**GENERAL SPECIFICATIONS:**

Isolation ..... Input to output 3,000VAC  
 Operating Temperature ..... -20~80°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non Condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 30~70KHz typ.  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC .....900Khrs min.  
 Altitude ..... 4000m  
 Dimensions ..... 2.047x1.417x0.992inches (52.00x36.00x25.21mm)  
 Weight ..... 55g(0.12 Pounds)

**TRE06S Series Derating Curve**



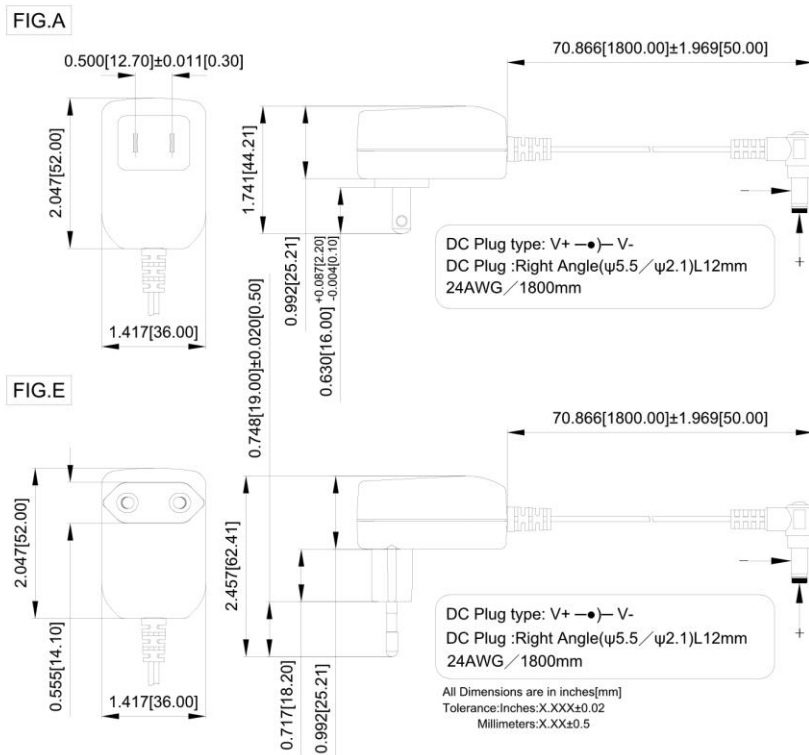
**SAFETY AND EMC:**

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

**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% load.
3. Line regulation measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
5. Efficiency with 230 VAC and 75% load 25°C.

**Mechanical Specification**



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