



TRE06 SERIES

6W SWITCHING ADAPTER



Features

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



Ordering information

TRE6XXX	-	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%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

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

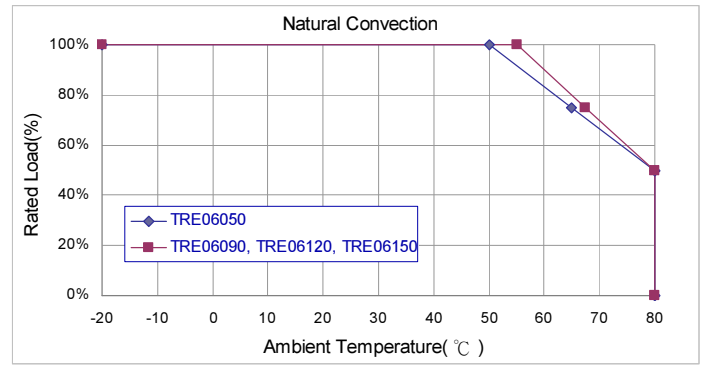
OUTPUT SPECIFICATIONS:

Holdup Time 10ms typ. @115Vac
 Short Circuit Protection Hiccup Mode Continuous(Auto Recovery)
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

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)

TRE06 Series Derating Curve



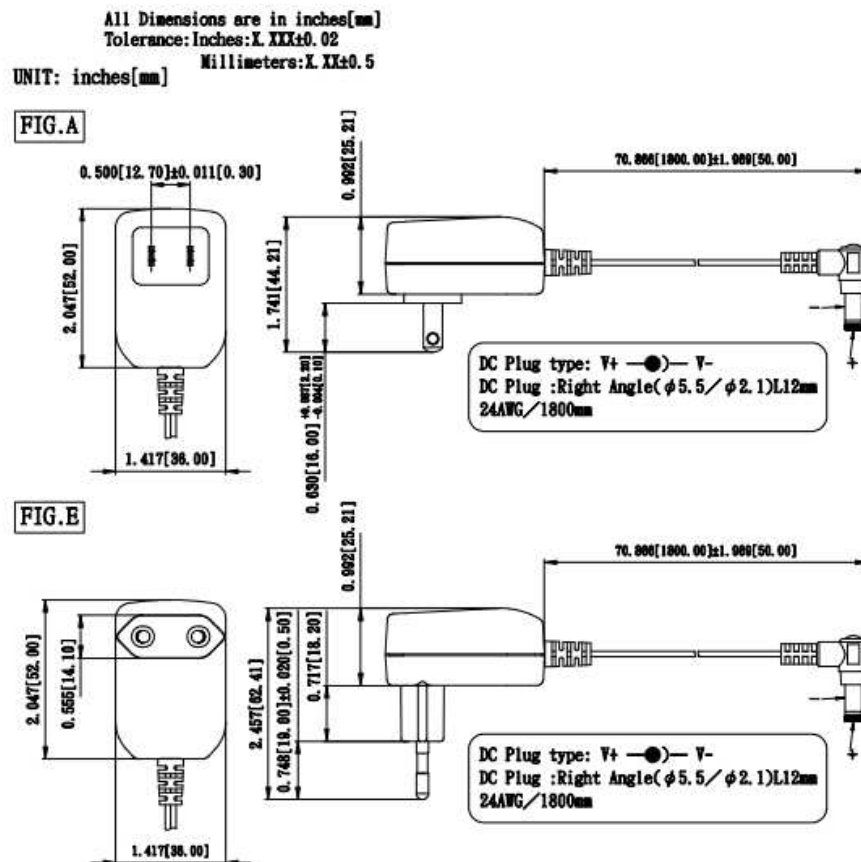
SAFETY AND EMC:

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

Mouser Electronics

Authorized Distributor

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Cincon:

[TRE06S050-A-11A03 VI](#) [TRE06S090-A-11A03 VI](#) [TRE06S120-A-11A03 VI](#) [TRE06S150-A-11A03 VI](#)