



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:

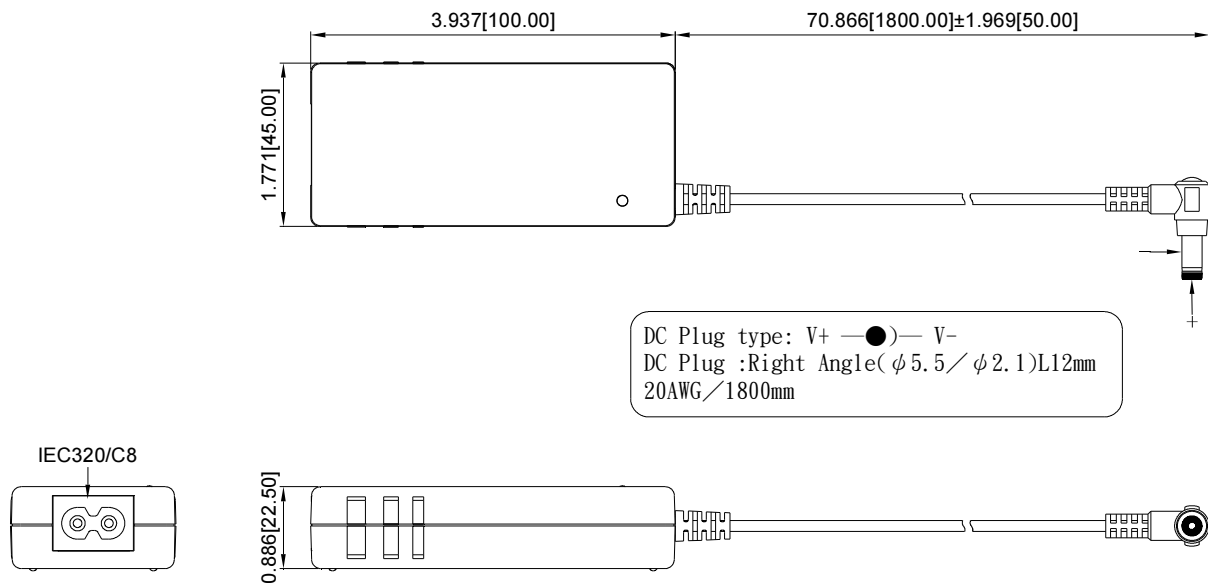
Isolation	Input to output 3,000VAC
Operating Temperature	-20 ~ 60°C (see derating curve)
Storage Temperature	-20~85°C
Humidity	93% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	65KHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 860Khrs max.
Altitude	5000m
Dimensions	3.937x1.771x0.886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

SAFETY AND EMC:

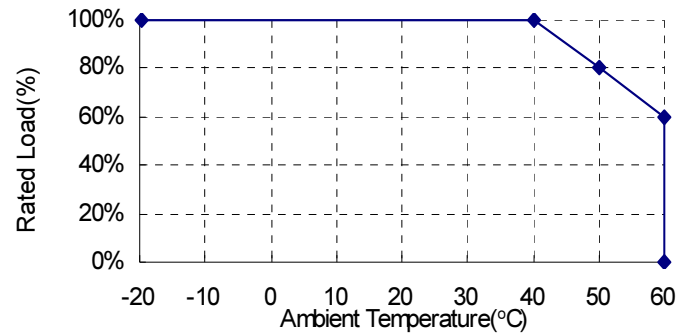
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B
	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
	EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
Safety	Class II, IEC62368-1/60950-1
	UL62368-1/60950-1, EN62368-1/60950-1

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.

Mouser Electronics

Authorized Distributor

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Cincon:

[TRE36A120-12G03 LEVEL VI](#) [TRE36A360-01G03 LEVEL VI](#) [TR70MB240-01E03](#) [TRE36A240-01G03 LEVEL VI](#)
[TR70MA120-01E02 VI](#) [TR70MB120-01E02 VI](#) [TR70MA240-01E03 VI](#) [TR70MB240-01E03 VI](#)