



TRE36 SERIES

36W SWITCHING ADAPTER



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 \leq 1800mm)
(TRE36A050: Output Cable Length \leq 1220mm)



Ordering Information

TRE36A	XX	X	XX
Model No.	DC Plug Type	G: UL1571 WITH OVP E: UL1185 WITH OVP	DC Cable Length and Type
		* 16AWG / UL1571 or Equivalent for Vo: 5V	01: 720mm
		* 18AWG / UL1571 or Equivalent for Vo: 9V, 12V, 13.5V	03: 1800mm
		* 20AWG / UL1571 or Equivalent for Vo: 15V, 18V, 24V	11: 720mm with Ferrite Core
		* 20AWG / UL1185 or Equivalent for Vo: 36V, 48V	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 NOET 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
	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.

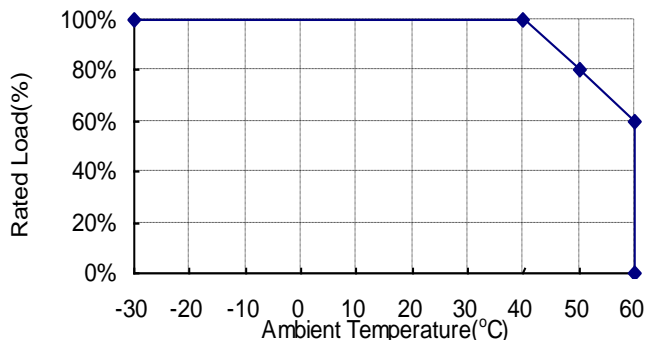
OUTPUT SPECIFICATIONS:

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:

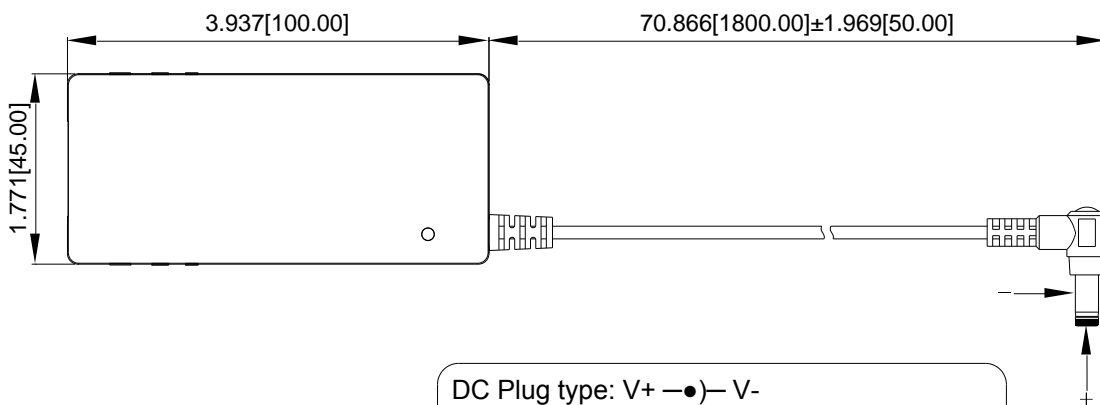
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B
	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
	EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
Safety	Class II, IEC/EN/UL 62368-1, IEC/EN/UL 60950-1

NOTE:

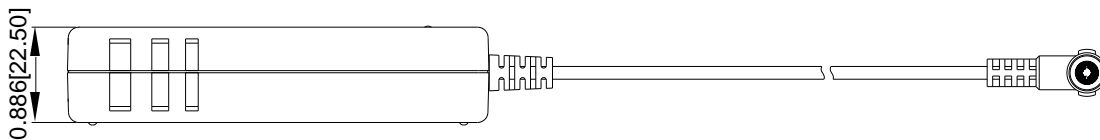
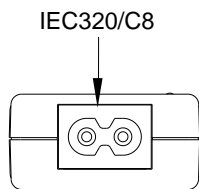
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
2. Voltage setpoint at 60% full load.
3. Line regulation is measured from 100Vac to 240Vac full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% 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



DC Plug type: V+ —●— V-
 DC Plug :Right Angle(ψ5.5 / ψ2.1)L12mm
 20AWG / 1800mm



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