



TRG36 SERIES

36W SWITCHING ADAPTER



Features

- * Universal Input Range 90-264VAC
- * Meets EN55022 Class "B" and CISPR/FCC Class B, Conducted
- * Continuous Short Circuit Protection
- * Leakage Current 0.25mA Max.
- * Over Voltage Protection
- * Meet CEC & ErP Level V
- * (Output cable length $\leq$ 1800mm)
(TRG36A09: Output Cable Length $\leq$ 1220mm)
(TRG36A05: Output Cable Length $\leq$ 720mm 18AWG/UL2464)

Ordering information

TRG36AXX-	XX	X	XX
Model No.	DC Plug Type	OVP	DC Cable Length and Type
		E: With OVP	01: 720mm 02: 1220mm 03: 1800mm 11: 720mm with Ferrite Core 12: 1220mm with Ferrite Core 13: 1800mm with Ferrite Core *18AWG/UL1185



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE REGULATION NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
TRG36A05	5V	4.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	77%
TRG36A09	9V	3.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	81%
TRG36A12	12V	2.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	83%
TRG36A13	13.5V	2.4A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	83%
TRG36A15	15V	2.4A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	84%
TRG36A18	18V	2.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	86%
TRG36A24	24V	1.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG36A48	48V	0.75A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 50 to 60Hz
 Inrush Current 60A max. @240Vac
 Leakage Current 0.25mA max.

OUTPUT SPECIFICATIONS:

Holdup Time 8ms typ. @115Vac
 Short Circuit Protection Continuous(Auto Recover)
 Over Voltage ProtectionTVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature 0 ~ 60°C (see derating curve)
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 50~70KHz
 MTBF MIL-HDBK-217F, GB, at 25°C/115VAC 200K hrs min.
 Altitude 2000m
 Dimensions 4.331x1.969x0.787inches (110.00x50.00x20.00mm)
 Weight 190g(0.42 Pounds)
 AC Inlet IEC320/C8

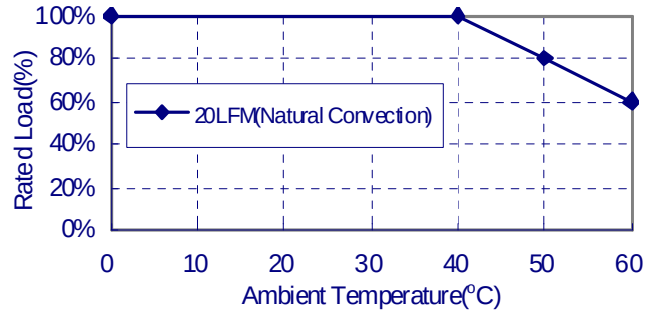
SAFETY AND EMC:

Emission and Immunity EN55022 Class B, FCC Part 15 Class B
 EN61000-6-3, EN61000-3-2, EN61000-3-3
 EN55024, EN61204-3, EN61000-6-1
 Safety IEC60950-1, EN60950-1, UL60950-1

Mechanical Specification

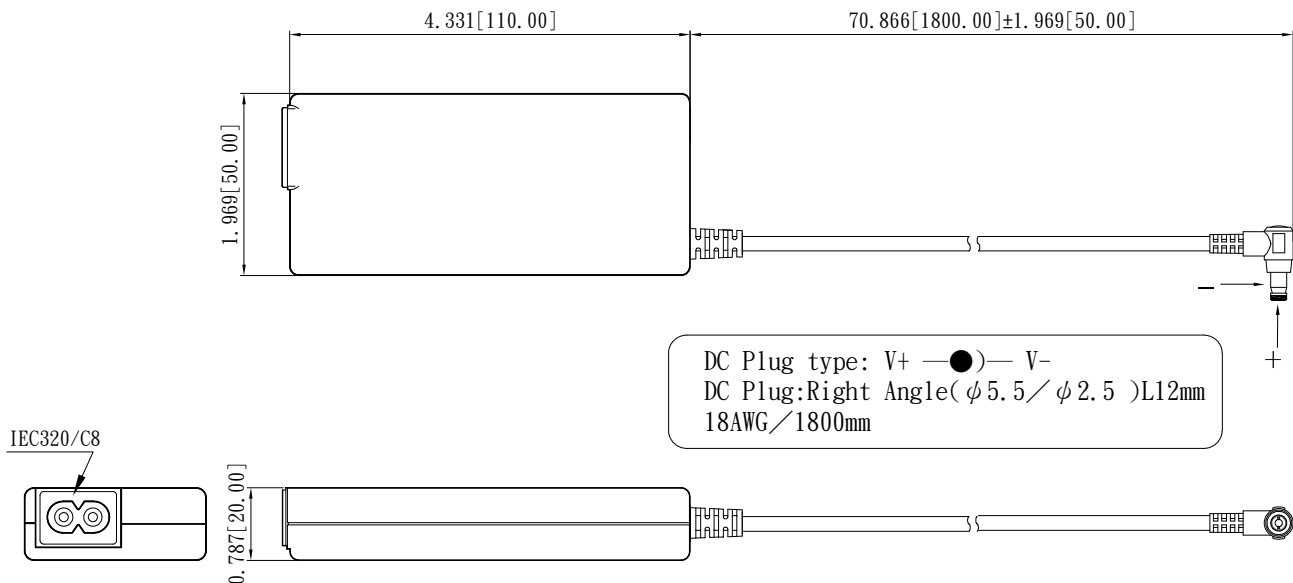
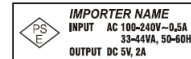
All Dimensions are in inches(mm)
 Tolerance: Inches:X.XXX $\pm$ 0.02
 Millimeters:X.XX $\pm$ 0.5

TRG36 Series Derating Curve



NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage setpoint at 60% load.
3. Line regulation is measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load).
5. Typical efficiency at 230VAC and full load at 25°C.
6. "Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below. If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local representative for details".



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

Mouser Electronics

Authorized Distributor

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Cincon:

[TRG36A12-12E03](#) [TRG36A13-12E03](#) [TRG36A15-12E03](#) [TRG36A24-11E03](#) [TRG36A48-12E03](#) [TRG36A18-12E03](#)
[TRG36A09-11E02](#) [TRG36A05-12E02](#) [TRG36A09-12E02](#) [TRG36A05-11E02](#) [TRG36A09-11E02-Level-V](#)
[TRG36A09-12E02-Level-V](#) [TRG36A12-11E03-Level-V](#) [TRG36A12-12E03-Level-V](#) [TRG36A13-11E03-Level-V](#)
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[11E03](#) [TRG36A15-11E03](#) [TRG36A13-11E03](#) [TRG36A24-12E03](#) [TRG36A12-11E03](#) [TRG36A05-01E01-Level-V](#)
[TRG36A05-02E01-Level-V](#) [TRG36A09-01E02-Level-V](#) [TRG36A09-02E02-Level-V](#) [TRG36A12-01E03-Level-V](#)
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[TRG36A24-02E03-Level-V](#) [TRG36A48-01E03-Level-V](#) [TRG36A48-02E03-Level-V](#) [TRG36A13-03E03-LVL-V](#)
[TRG36A09-26E02-LVL-V](#) [TRG36A24-23E03-LVL-V](#)