



TRG70E VI SERIES

70W SWITCHING ADAPTER



Features

- * Universal Input Range 90~264VAC
- * Meets EN55022 Class B and CISPR/FCC Class B
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * No Load Power Consumption < 150mW
- * Meet CoC Tier 2 & DoE Level VI
(TRG70E120: Output Cable Length $\leq$ 720mm 16AWG)
(TRG70E240: Output Cable Length $\leq$ 1800mm 18AWG)

Ordering information

TRG70EXXX- 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 2	VOLTAGE ACCURACY NOTE 1	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	EFFICIENCY (typ.) NOTE 5
TRG70E120	12 V	5.5 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	89%
TRG70E240	24 V	3.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current Cold Start @25°C 80A max. @240Vac
 Conducted EMI CISPR/FCC Class B
 Leakage Current 0.25mA max.

OUTPUT SPECIFICATIONS:

Hold-up Time 8ms typ. @115Vac
 Short Circuit Protection Continuous
 Over Voltage Protection Yes
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature -20 ~ 70°C (see derating curve)
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 60KHz Typical
 MTBF MIL-HDBK-217F, GB, at 25°C/115VAC 200Khrs min.
 Altitude 2000m
 Dimensions 5.197x2.283x1.201 inches (132.00x58.00x30.50 mm)
 Weight 345g(0.76 Pounds)
 AC Inlet IEC320/C8

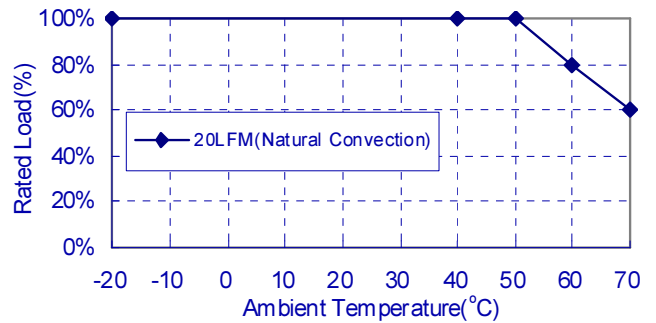
SAFETY AND EMC:

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

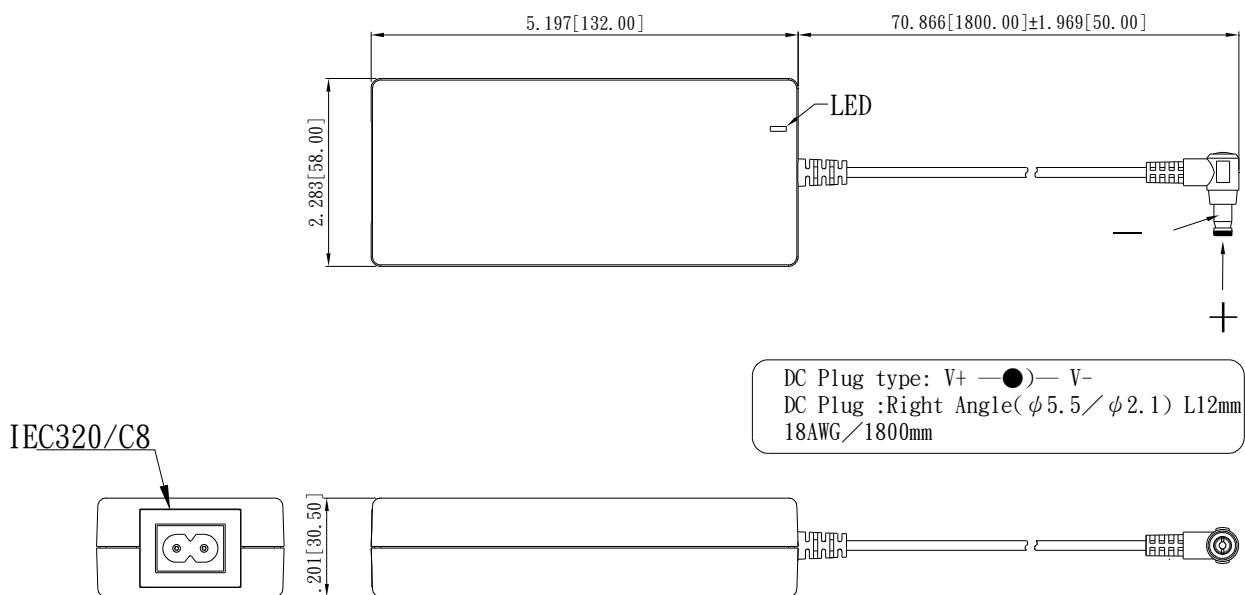
All Dimensions are in inches(mm)
 Tolerance: Inches: X.XXX ± 0.02
 Millimeters: X.XX ± 0.5

TRG70E Series Derating Curve



NOTE:

1. Voltage accuracy at 60% full load
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac, full load.
4. Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% $\pm$ 40% full load).
5. Typical efficiency at 230VAC and 75% load at 25°C.



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

Mouser Electronics

Authorized Distributor

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Cincon:

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