



TRG70E SERIES

70W SWITCHING ADAPTER



Features

- * 70W Single Output
 - * Universal Input Range 90~264VAC
 - * 2 pole AC Inlet IEC320-C8
 - * Class II Insulation
 - * Continuous Short Circuit Protection
 - * Meets EN55022 Class B and CISPR/FCC Class B, Conducted
 - * Meet CEC & ErP Level V
- (Output Cable Length $\leq$ 1800mm)
 (TRG70E120: Output Cable Length $\leq$ 720mm 16AWG)
 (TRG70E150: Output Cable Length $\leq$ 1220mm 16AWG)

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	%EFF. (Typ.) NOTE 5
TRG70E120	12V	5.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	86%
TRG70E150	15V	4.6A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	88%
TRG70E180	18V	3.9A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG70E190	19V	3.7A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	88%
TRG70E240	24V	3.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRG70E480	48V	1.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	90%

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:

Holdup 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 0 ~ 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 200K hrs min.
 Altitude 2000m
 Dimensions 5.197x2.283x1.201 inches (132.00x58.00x30.50 mm)
 Weight 345g(0.76 Pounds)
 AC Inlet IEC320/C8

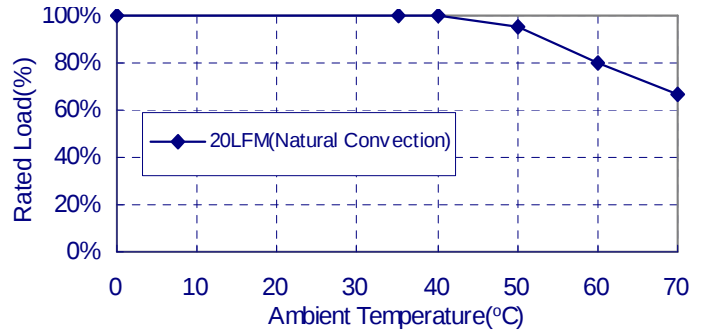
SAFETY AND EMC:

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

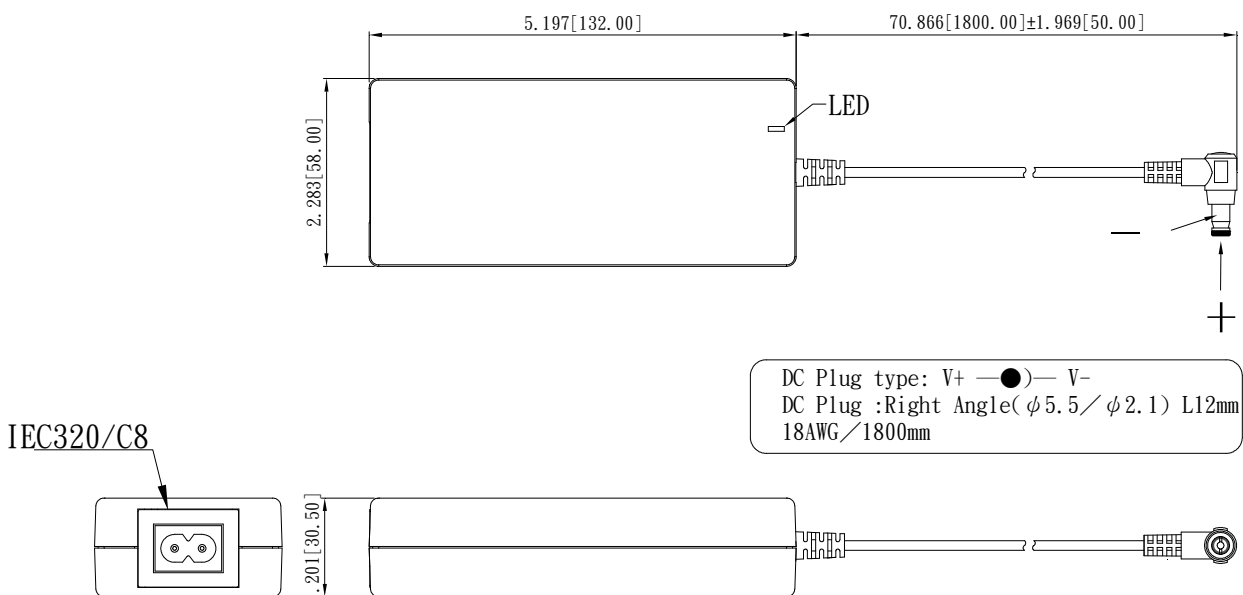
All Dimensions are in inches(mm)
 Tolerance: Inches: X.XXX ± 0.02
 Millimeters: X.XX ± 0.5

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 measured from 100Vac to 240Vac, full load.
4. Load regulation 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 full 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:

<u>TRG70E240-12E03-Level-V</u>	<u>TRG70E120-11E01-Level-V</u>	<u>TRG70E120-12E01-Level-V</u>	<u>TRG70E150-11E02-Level-V</u>
<u>TRG70E150-12E02-Level-V</u>	<u>TRG70E180-11E03-Level-V</u>	<u>TRG70E180-12E03-Level-V</u>	<u>TRG70E190-11E03-Level-V</u>
<u>TRG70E190-12E03-Level-V</u>	<u>TRG70E240-11E03-Level-V</u>	<u>TRG70E480-11E03-Level-V</u>	<u>TRG70E480-12E03-Level-V</u>
<u>TRG70E120-01E01-Level-V</u>	<u>TRG70E120-02E01-Level-V</u>	<u>TRG70E150-01E02-Level-V</u>	<u>TRG70E150-02E02-Level-V</u>
<u>TRG70E180-01E03-Level-V</u>	<u>TRG70E180-02E03-Level-V</u>	<u>TRG70E190-01E03-Level-V</u>	<u>TRG70E190-02E03-Level-V</u>
<u>TRG70E240-01E03-Level-V</u>	<u>TRG70E240-02E03-Level-V</u>	<u>TRG70E480-01E03-Level-V</u>	<u>TRG70E480-02E03-Level-V</u>
<u>TRG70E240-02E03-Level-VI</u>	<u>TRG70E240-12E03-Level-VI</u>	<u>TRG70E240-01E03-Level-VI</u>	<u>TRG70E120-01E01-Level-VI</u>
<u>TRG70E120-11E01-Level-VI</u>	<u>TRG70E240-11E03-Level-VI</u>	<u>TRG70E120-02E01-Level-VI</u>	<u>TRG70E120-12E01-Level-VI</u>