



# 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
- \* 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
		E: 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
		*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	12 V	5.5 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	86%
TRG70E150	15 V	4.6 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	88%
TRG70E180	18 V	3.9 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%
TRG70E190	19 V	3.7 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	88%
TRG70E240	24 V	3.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	89%
TRG70E480	48 V	1.5 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	90%

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Specifications are subject to change without notice.

## 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 ..... ±0.05%/°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 ..... 200Khrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 5.197x2.283x1.201 inches (132.00x58.00x30.50 mm)  
 Weight ..... 345g(0.76 Pounds)  
 AC Inlet ..... IEC320/C8

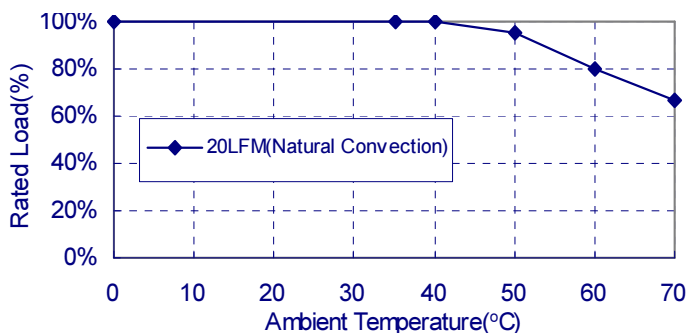
### SAFETY AND EMC:

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% +/- 40% full load).
5. Typical efficiency at 230VAC and full load at 25°C.

