

TRG70E

S E R I E S

70W SWITCHING ADAPTER



Features

- 70W Single Output
 - Universal Input : 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	E	XX
Model No.	DC Plug Type * Please see Page 243 for more detailed descriptions	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 SETPOINT 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%

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 $\pm 0.05\%/^{\circ}\text{C}$

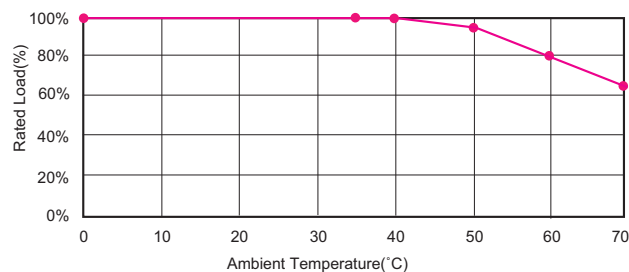
GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
Operating Temperature 0°C~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 Part15 Class B
EN61000-6-3, EN61000-3-2, EN61000-3-3
EN55024, EN61204-3, EN61000-6-1
Safety IEC60950-1, EN60950-1, UL60950-1

TRG70E Series Derating Curve



NOTE:

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

Mechanical Specification

All Dimensions In Inches(mm)
Tolerance Inches: x.xxx= ± 0.02
Millimeters: x.xx= ± 0.5

