

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, 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

TRG70EXX	XX	E	XX
Model No.	DC Plug Type * Please see Page215 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	MINI. LOAD	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REGULATION	LOAD REGULATION	%EFF. (Typ.)
TRG70E120	12V	5.5 A	0 A	1%	\pm 2%	\pm 1%	\pm 5%	82%
TRG70E150	15V	4.6 A	0 A	1%	\pm 2%	\pm 1%	\pm 3%	83%
TRG70E180	18V	3.9 A	0 A	1%	\pm 2%	\pm 1%	\pm 2%	84%
TRG70E190	19V	3.7 A	0 A	1%	\pm 2%	\pm 1%	\pm 2%	84%
TRG70E240	24V	3.0 A	0 A	1%	\pm 2%	\pm 1%	\pm 2%	86%
TRG70E480	48V	1.5 A	0 A	1%	\pm 2%	\pm 1%	\pm 2%	87%

Specifications

INPUT SPECIFICATIONS:

Voltage 90-264Vac
 Frequency 47 to 63Hz
 Inrush Current 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 $\pm 0.05\%/^{\circ}\text{C}$

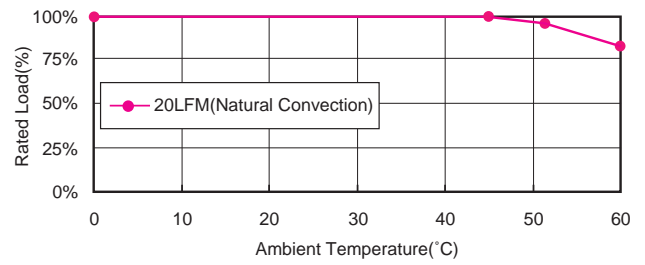
GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature 0 - 60°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 setpoint 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)

Mechanical Specification

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

