



# TRG10R SERIES 10W SWITCHING ADAPTER



## Features

- \* Universal Input: 90~264Vac
- \* Continuous Short Circuit Protection
- \* Interchangeable AC Plugs
- \* EMI Meets EN55032 Class "B" and CISPR/FCC Class B
- \* Over Voltage Protection
- \* No Load Power Consumption < 75mW
- \* Approved IEC/EN/UL62368-1
- \* Meet CoC V5 Tier 2 & DoE Level VI  
(Output cable length  $\leq$  1800mm)



## Ordering information

TRG10RXXX	- XX	E	XX
Model No.	DC Plug Type	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 for Vo: 5V, 5.9V, 6V, 7.5V, 9V
			* 20AWG / UL1185 for Vo: 12V, 13.6V
			* 22AWG / UL1185 for Vo: 15V, 18V
			* 24AWG / UL1185 for Vo: 24V

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	AVG. EFF.
TRG10R050	5V	1600mA	50mV	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	77.37%
TRG10R059	5.9V	1500mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	78.12%
TRG10R060	6.0V	1500mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	81.57%
TRG10R075	7.5V	1200mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	81.57%
TRG10R090	9V	1100mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82.14%
TRG10R120	12V	850mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82.32%
TRG10R136	13.6V	750mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82.32%
TRG10R150	15V	700mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82.49%
TRG10R180	18V	550mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	82.14%
TRG10R240	24V	400mA	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	81.96%

Specifications are subject to change without notice.

## Specifications

### INPUT SPECIFICATIONS:

Voltage .....	90~264Vac 120~370Vdc
Frequency .....	47 to 63Hz
Input Current .....	0.4A max.
Inrush Current .....	40A max. @240Vac
Conducted EMI .....	CISPR/FCC Class B
Leakage Current .....	0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time .....	10mS typ. @115Vac
Short Circuit Protection .....	Continuous(Auto Recovery)
Over Voltage Protection .....	TVS Component to Clamp
Temperature Coefficient .....	±0.05%/°C

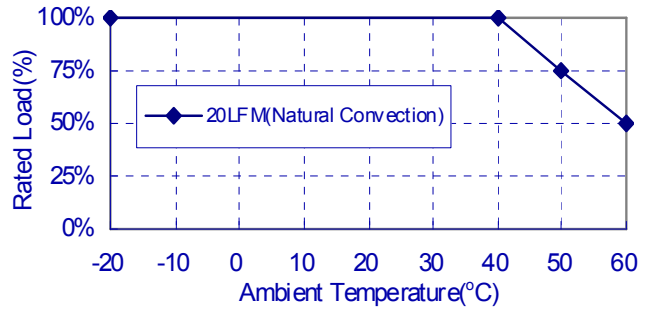
### GENERAL SPECIFICATIONS:

Isolation .....	Input to output = 4,242VDC
Operating Temperature .....	-20 ~ 60°C (see Derating Curve)
Storage Temperature .....	-20~85°C
Humidity .....	93% RH max. Non condensing
Cooling .....	Natural Convection
Switching Frequency .....	67KHz typ.
MTBF .....	MIL-HDBK-217F, GB, 25°C/115VAC ..... 200K hrs min.
Altitude .....	2000m
Dimensions .....	2.858x1.823x1.402Inches (72.6x46.3x35.6mm)
Weight .....	130g(0.29 Pounds)

### SAFETY AND EMC:

Emission and Immunity .....	EN55032 Class B, FCC Part 15 Class B EN61000-6-3, EN61000-3-2, EN61000-3-3 EN55024, EN61204-3, EN61000-6-1
Safety .....	Class II, IEC/EN/UL62368-1/609501-1

## TRG10R Series Derating Curve

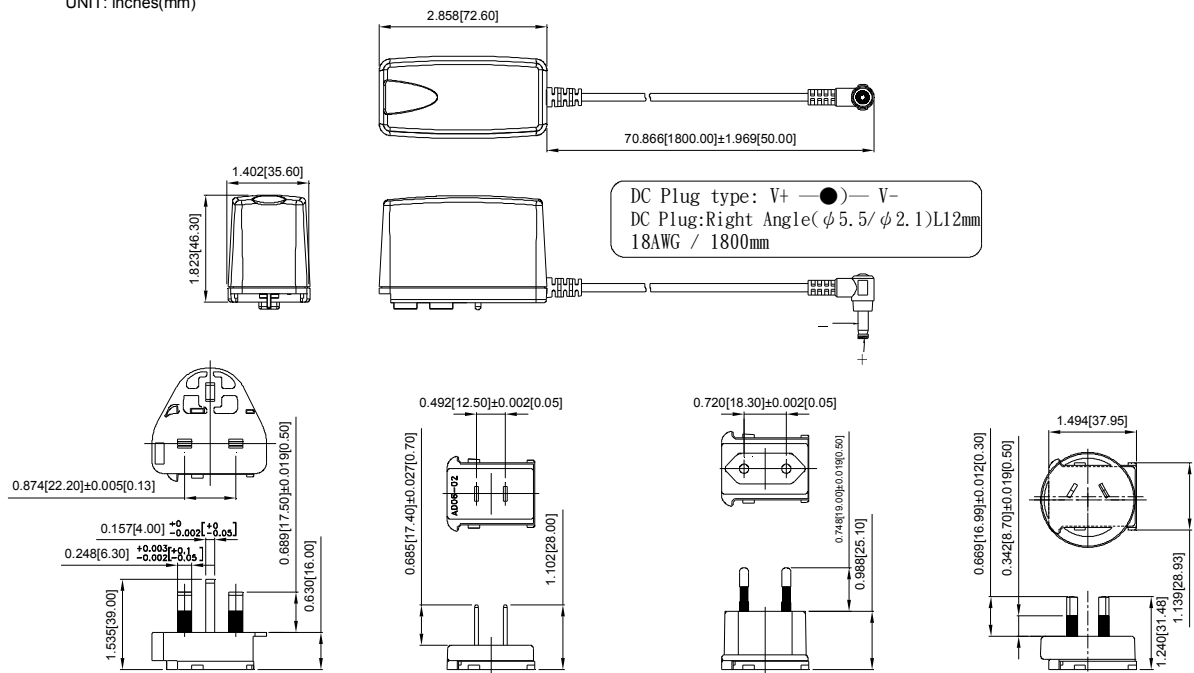


### NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage setpoint at 60% full load.
3. Line regulation is measured from 100Vac to 240Vac with full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).

## Mechanical Specification

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



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

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