

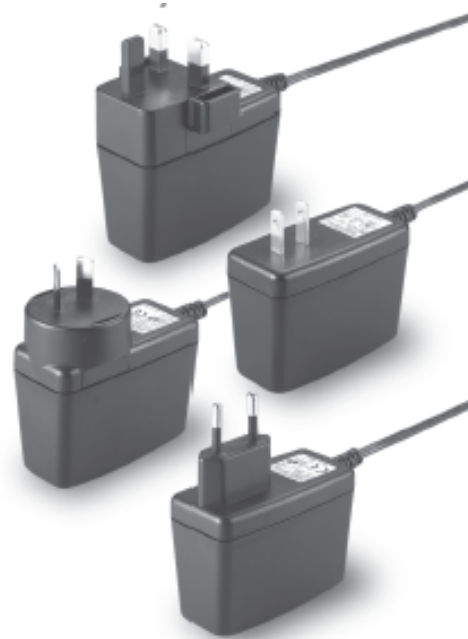


# TRG500 SERIES 6W SWITCHING ADAPTER



## Features

- \* Universal Input Range 90-264VAC
- \* Meets EN55022 Class B and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* Over Voltage Protection
- \* CEC Level IV Compliant
- \* Level V : TRG500V Series  
(Output Cable Length  $\leq$  1800mm)



## Ordering information

TRG5XXX -	X	-	XX	X	XX
Model No.	AC Plug Type	DC Plug Type	OVP	DC Cable Length and Type	
TRG5XX : LEVEL IV	A: USA 2 Pin	* Please see	E: With OVP	01: 720mm	
TRG5XXV : LEVEL V	E: Europe 2 Pin	Page 213 for		02: 1200mm	
	U: British 3 Pin	more detailed		03: 1800mm	
	S: Australia 2 Pin	descriptions		11: 720mm with Ferrite Core	
				12: 1200mm with Ferrite Core	
				13: 1800mm with Ferrite Core	
				* 20AWG / UL2468	

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REGULATION	LOAD REGULATION	%EFF. (Typ)
TRG501-15V	15V	400mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG501	12V	500mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG501V	12V	500mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG502	10V	600mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG502V	10V	600mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG503	9V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG503V	9V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 2\%$	68%
TRG506	8V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG506V	8V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG507	7.5V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG507V	7.5V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG508	7.0V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG508V	7.0V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG510	6.5V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG510V	6.5V	650mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	67%
TRG511-1	6.0V	1000mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	67%
TRG511-1V	6.0V	1000mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	67%
TRG513-1	5.0V	1200mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	66%
TRG513-1V	5.0V	1200mA	0A	1%	$\pm 3\%$	$\pm 1\%$	$\pm 4\%$	66%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.5A  
 Inrush Current ..... 50A max. @240Vac  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Continuous(Auto Recovery)  
 Over Voltage Protection ..... Yes  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

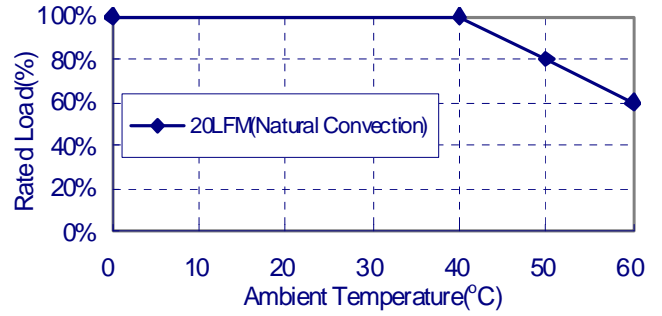
### GENERAL SPECIFICATIONS:

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 ..... 100KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.835x2.047x1.378inches (72.00x52.00x35.00mm)  
 Weight ..... 135g (0.30Pounds)

### 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

## TRG500 Series Derating Curve

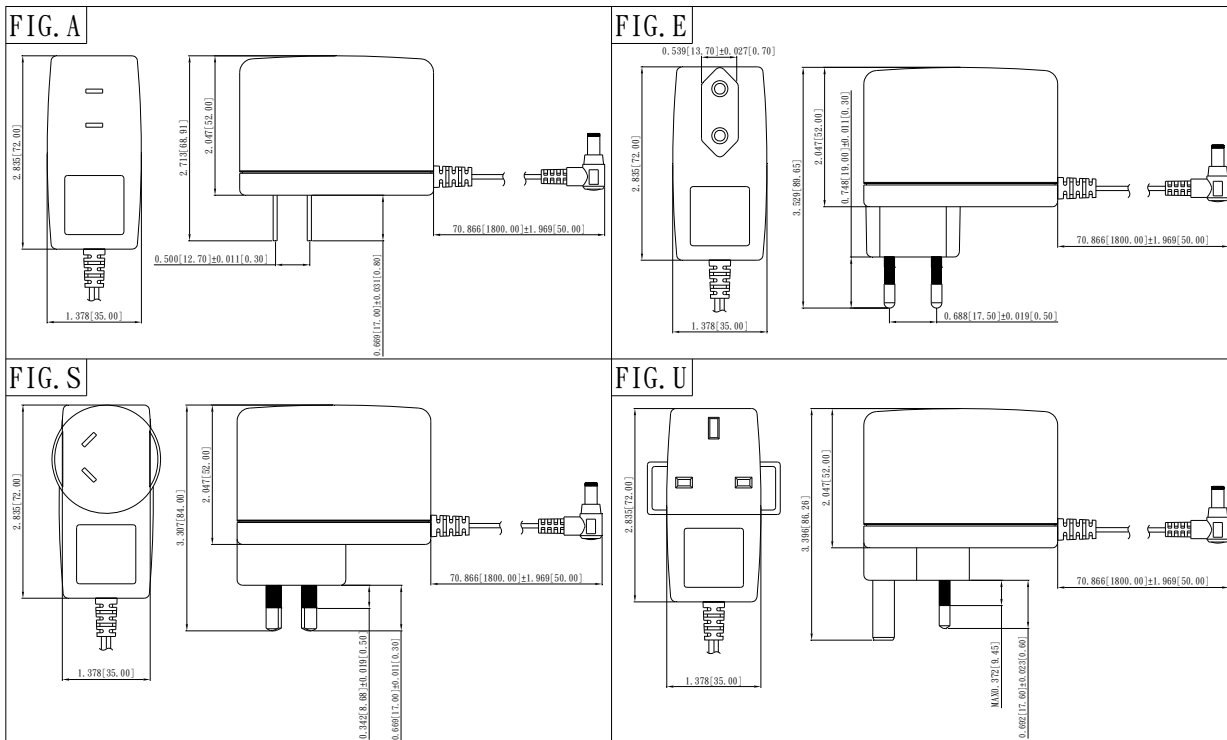


### NOTE:

1. Voltage setpoint 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 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



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