

# TRG15

S E R I E S

## 15W SWITCHING ADAPTER



### Features

- Universal Input Range 90-264VAC
- Meets EN55022 Class B and CISPR/FCC Class B
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meet CEC & ErP Level V (Output Cable Length  $\leq$  1800mm)

### Ordering information

TRG15XX	X	XX	X	XX
Model No.	AC Plug Type	DC Plug Type	OVP	DC Cable Length and Type
	A : USA 2 Pin E : Europe 2 Pin U : British 3 Pin S : Australia 2 Pin	* Please see Page215 for more detailed descriptions	E: With OVP Option	01 : 720mm 02 : 1200mm 03 : 1800mm 11 : 720mm with Ferrite Core 12 : 1200mm with Ferrite Core 13 : 1800mm with Ferrite Core * 18AWG / UL1185

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	%EFF. (Typ.)
TRG1505	5V	2.0 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 4%	72%
TRG1506	6V	1.5 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	76%
TRG1507	7.5V	1.6 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	77%
TRG1509	9V	1.4 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	77%
TRG1512	12V	1.0 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	80%
TRG1512-01	13.6V	1.0 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	81%
TRG1515	15V	1.0 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	81%
TRG1518	18V	0.83 A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	83%
TRG 1524	24V	0.63A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	83%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90-264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 100Vac/0.5A max., 240Vac/0.25A max.  
 Inrush Current ..... 50A max. @240Vac  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Hiccup Mode (Auto Recovery)  
 Over Voltage Protection .....TVS Component to Clamp

### GENERAL SPECIFICATIONS:

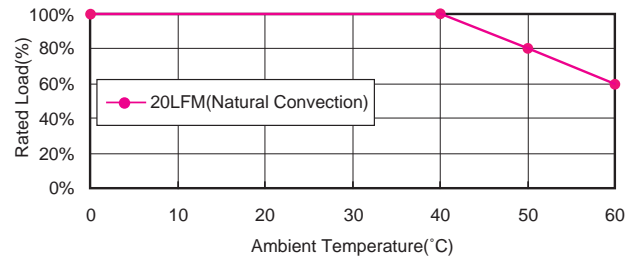
Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0 - 60°C (see derating curve)  
 Storage Temperature ..... -20 - 85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 87KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.835x2.047x1.378Inches (72.00x52.00x35.00mm)  
 Weight ..... 140g(0.31 Pounds)

### SAFETY AND EMC:

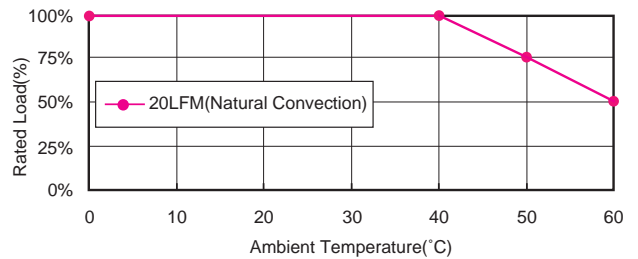
Emission and Immunity ..... EN55022 Class B, FCC Part15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

## TRG15 Series Derating Curve

TRG1505, 1506, 1507, 1509, 1512, 1512-01



TRG1515, 1518, 1524



### 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, full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% load)

TRG15

## Mechanical Specification

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

FIG.A

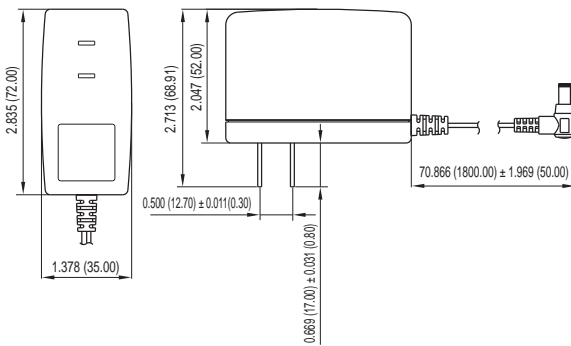


FIG.E

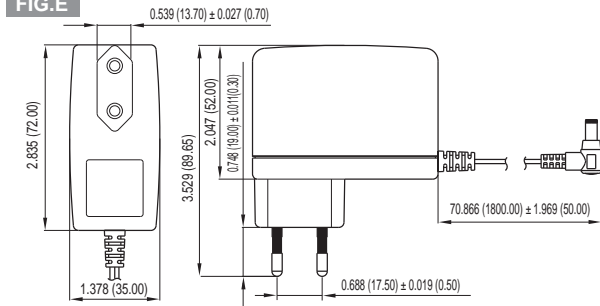


FIG.S

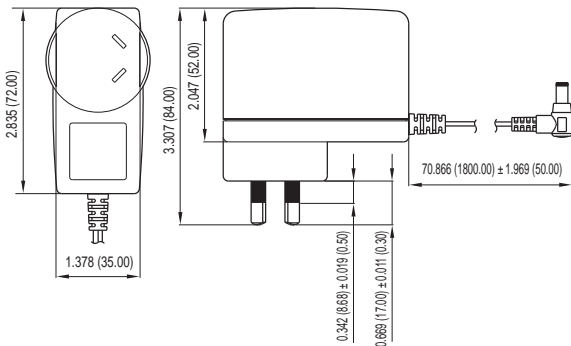
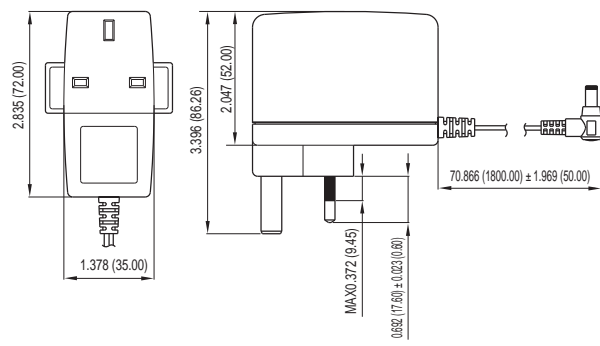


FIG.U



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