

# TRG15

S E R I E S

## 15W SWITCHING ADAPTER



### Features

- Universal Input Range 90~264VAC
- EMI 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
<b>Model No.</b>		<b>AC Plug Type</b>		<b>DC Plug Type</b>		<b>OVP</b>		<b>DC Cable Length and Type</b>
		A : USA 2 Pin E : Europe 2 Pin U : British 3 Pin S : Australia 2 Pin		* Please see Page 243 for more detailed descriptions		E: With OVP Option		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 ACCURACY NOTE 1	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	%EFF. (Typ.) NOTE 5
TRG1505	5 V	2.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 4\%$	72%
TRG1506	6 V	1.5 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	76%
TRG1507	7.5 V	1.6 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	77%
TRG1509	9 V	1.4 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	77%
TRG1512	12 V	1.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	80%
TRG1512-01	13.6 V	1.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	81%
TRG1515	15 V	1.0 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	81%
TRG1518	18 V	0.83 A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	83%
TRG1524	24 V	0.63 A	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 ..... Cold start @25°C 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:

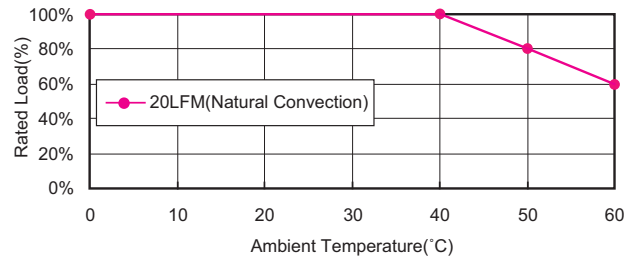
Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0°C~60°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 87KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at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

### SAFETY AND EMC:

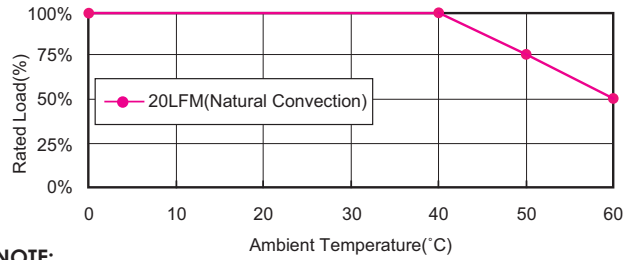
Emission and Immunity ..... EN55022 Class B, FCC Part15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

## TRG15 Series Derating Curve

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



TRG1515, 1518, 1524



### NOTE:

1. Voltage accuracy is set at 60% load and 25°C Ta.
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).
5. Typical efficiency with 230 VAC and max. load at 25°C.

## Mechanical Specification

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

FIG.A

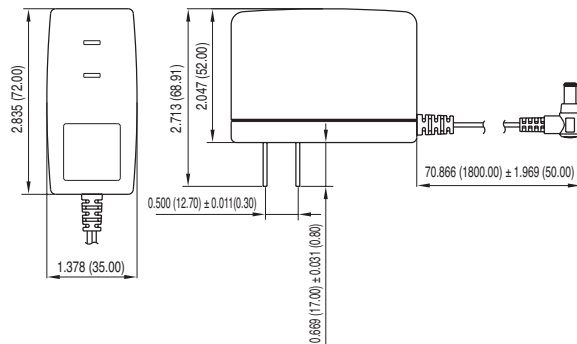


FIG.E

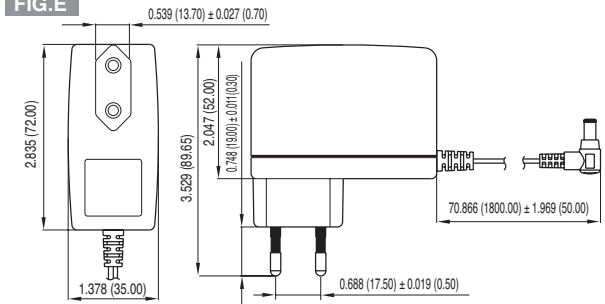


FIG.S

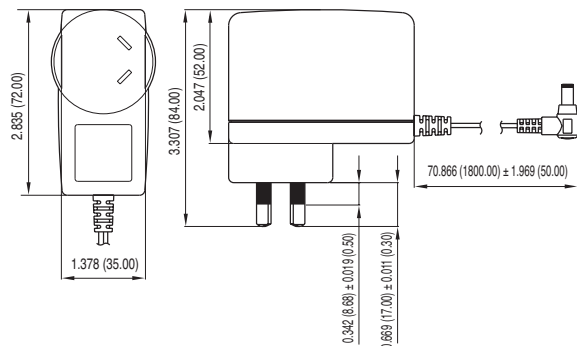


FIG.U

