



## 15 Watt Switching Adapter Wall Mount, Series DVTRG15



### Features

- Universal Input: 90 – 264Vac
- High Efficiency up to 86%
- Class II
- No Load Power Consumption <75mW
- Approved IEC/EN/UL 62368-1
- Meets EN55032 Class B and CISPR/FCC Class B
- Operating Altitude 5000m
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meets CoC Tier 2 & DoE Level VI

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT MAX. [ A ]	RIPPLE & NOISE [ mVp-p ] (NOTE2)	VOLTAGE ACCURACY [ % ] (NOTE1)	LOAD REG. [ % ] (NOTE4)	EFF. TYP. [ % ] (NOTE5)	LOAD CAPACITANCE [ µF ] (NOTE3)
TRG1505	5	2,0	50	±2	±4	80	2000
TRG1506	6	1,5	60	±2	±3	82	1500
TRG1507	7,5	1,6	75	±2	±3	83	1680
TRG1509	9	1,4	90	±2	±2	84	1470
TRG1512	12	1,0	100	±2	±2	85	1000
TRG1512-01	13,6	1,0	100	±2	±2	85	1000
TRG1515	15	1,0	100	±2	±2	86	1000
TRG1518	18	0,83	100	±2	±2	86	830
TRG1524	24	0,63	100	±2	±2	86	630

- NOTE:
1. Voltage accuracy is set at 60% full load.
  2. Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
  3.  $V_{in}=115V_{ac}$  and  $230V_{ac}$ , Output is max. load
  4. Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60%±40% full load).
  5. Typical efficiency at 230 Vac and 75% full load at 25°C.
  6. Typical at 25°C , nominal line and 75% load, unless otherwise specified.

Ordering Information					
Model		Output Voltage	DC Plug Type	Cable	DC Cable Length
TRG15 15W I.T.E Adapter	XX or XX-XX	-X	-XX	X	XX
	A : USA 2 Pin E : Europe 2 Pin U : British 3 Pin S : Australia 2 Pin	05 : 5V	STANDARD OUTPUT DC PLUG	UL1571 with OVP	5V: 1800mm with DC Jack
		06 : 6V			6V: 1220mm with DC Jack
		07 : 7,5V			7,5V: 1800mm with DC Jack
		09 : 9V			9V: 1800mm with DC Jack
		12 : 12V			12V: 1800mm with DC Jack
		12-01 : 13,6V			13,6V: 1800mm with DC Jack
		15 : 15V			15V: 1800mm with DC Jack
		18 : 18V			18V: 1800mm with DC Jack
		24 : 24V			24V: 1800mm with DC Jack

Example:  
TRG1512-A-01E03, 12Vdc Output, AC Plug Type, DC Jack Type, Cable Length 1800mm

Specifications are subject to change without notice

2022-04

## INPUT SPECIFICATIONS:

Input Voltage Range.....	90-264Vac
Input Frequency Range.....	47 to 63Hz
Input Current.....	100% Load, Vin=100Vac 0,5A max.
Leakage Current.....	250µA max.
Inrush Current.....	Vin=240Vac, Cold start at 25°C 50A max.

## OUTPUT SPECIFICATIONS:

Hold-up Time.....	Vin 115Vac	10mS typ.
Line Regulation.....	Vin=100Vac to 240Vac	±1.0% max.
Over Voltage Protection.....	Auto recovery	IC Component to Clamp
Over Current Protection.....	Auto recovery	110% min. - 160% max.
Short Circuit Protection.....	Auto recovery	Continuous

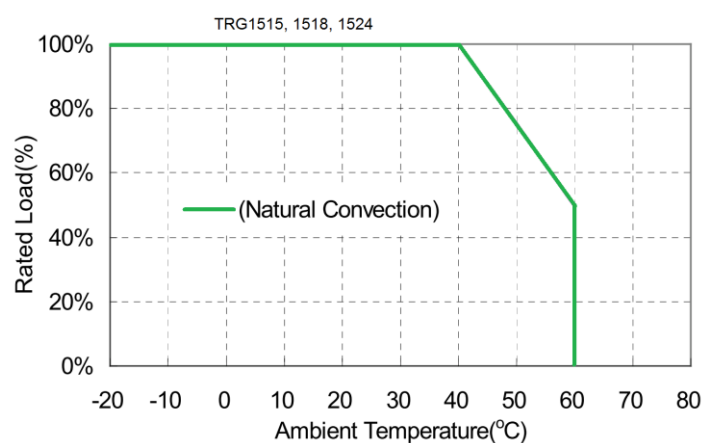
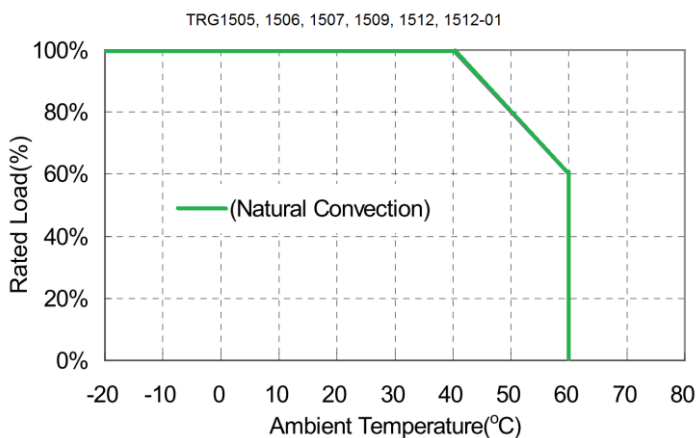
## GENERAL SPECIFICATIONS:

Isolation Input to Output.....	1 minute (without dielectric breakdown)	3000VAC max.
Isolation Resistance.....	Input to output	100 MΩ min.
Switching Frequency.....	Vin=230Vac, Io=100%	65KHz typ.
Operating Temperature Range.....	see derating curve	-20°C to +60°C
Storage Temperature Range.....		-20°C to +85°C
Humidity.....	Non condensing	93% RH max.
Cooling.....		Natural Convection
MTBF.....	Io=100%; Ta=25°C per MIL-HDBK-217F	200Khrs min.
Altitude.....		5000m max.
Shock.....	MIL-STD-810F Table 516.5	75g typ.
Vibration.....	MIL-STD-810F Table 514.5C-VIII	4g typ
Dimensions.....		72,00 x 52,00 x 35,00 mm
Weight.....		140g typ.

## SAFETY & EMC:

Safety.....	Class II, IEC/EN/UL 62368-1/60950-1
EMC Emission.....	EN 55032: 2015 Class B, EN 61000-3-2:2014 EN 61000-3-3:2013, FCC CFR Title 47 Part 15 Subpart B: 2007 Class B
Conducted Disturbance.....	EN 55032, EN61000-6-3, EN 61204-3 Class B
Radiated Disturbance.....	EN 55032, EN61000-6-3, EN 61204-3 Class B
Harmonic Current Emissions.....	EN 61000-3-2
Voltage Fluctuations & Flicker.....	EN 61000-3-3
EMC Immunity.....	EN 61204-3: 2000, EN 55024:2010, EN 61000-6-1, 3, IEC 61000-4-2, 3, 4, 5, 6, 8, 11
Electrostatic Discharge (ESD).....	IEC 61000-4-2 Ed. 2.0: 2008, Air Discharge: ±8kV, Contact Discharge: ±4kV
Radio-Frequency, Continuous, Radiated Disturbance.....	IEC 61000-4-3
Electrical Fast Transient (EFT).....	IEC 61000-4-4 Ed. 3.0: 2012, ±1kV
Surge.....	IEC 61000-4-5 Ed. 3.0: 2014, L-N: ±1kV
Conducted Disturbances, Induced by RF Fields.....	IEC 61000-4-6
Power Frequency Magnetic Field.....	IEC 61000-4-8
Voltage Dips.....	IEC 61000-4-11 Ed. 2.0: 2004, Dips: 30% Reduction, Dips: >95% Reduction
Voltage Interruptions.....	IEC 61000-4-11 Ed. 2.0: 2004, >95% Reduction

## Derating Curve

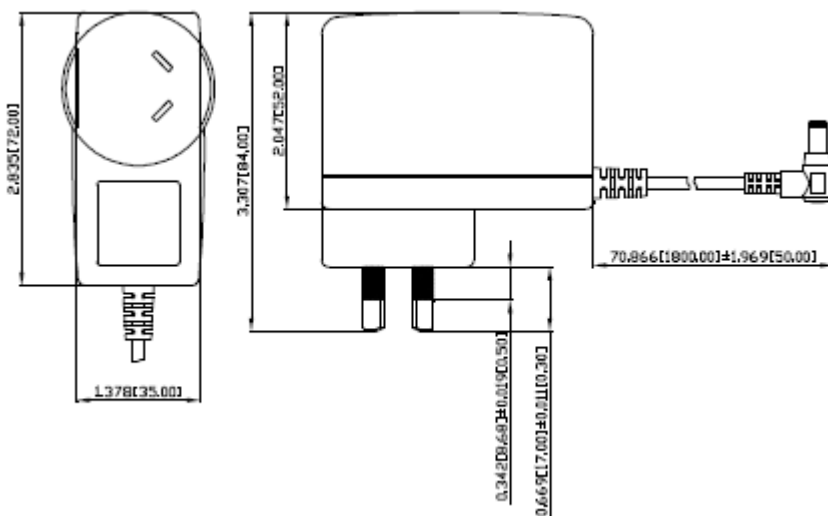
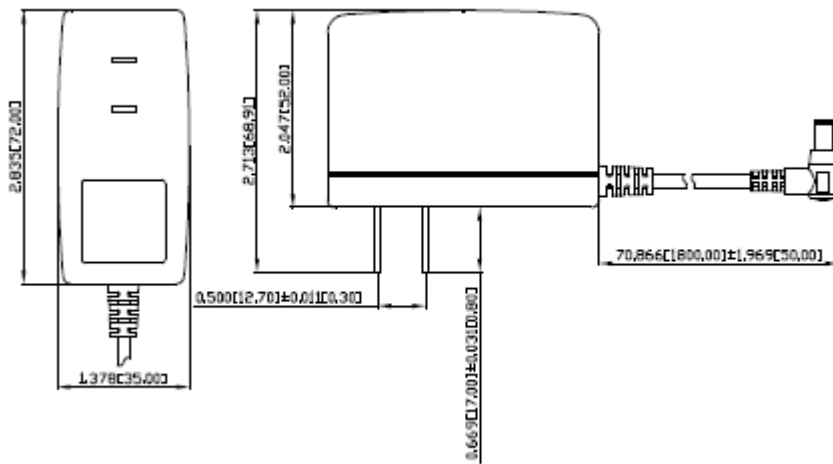
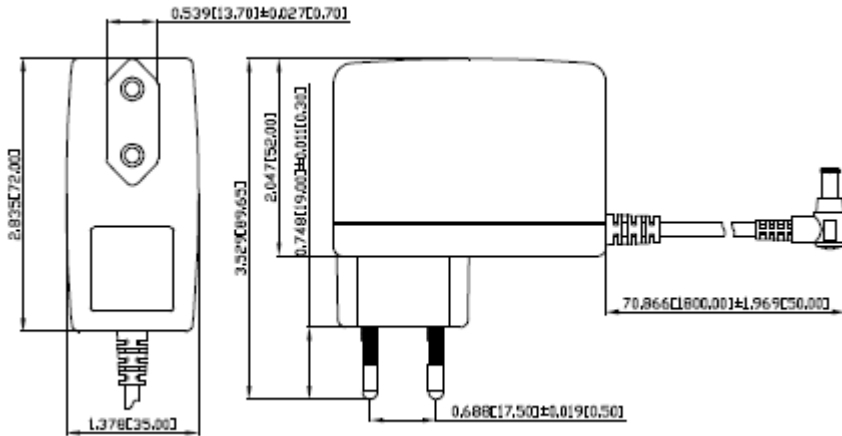


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# MECHANICAL SPECIFICATION

# Series DVTRG15

All Dimensions in Inches (mm); Tolerance: Inches: x.xxx=±0.02, mm: x.xx=±0.5

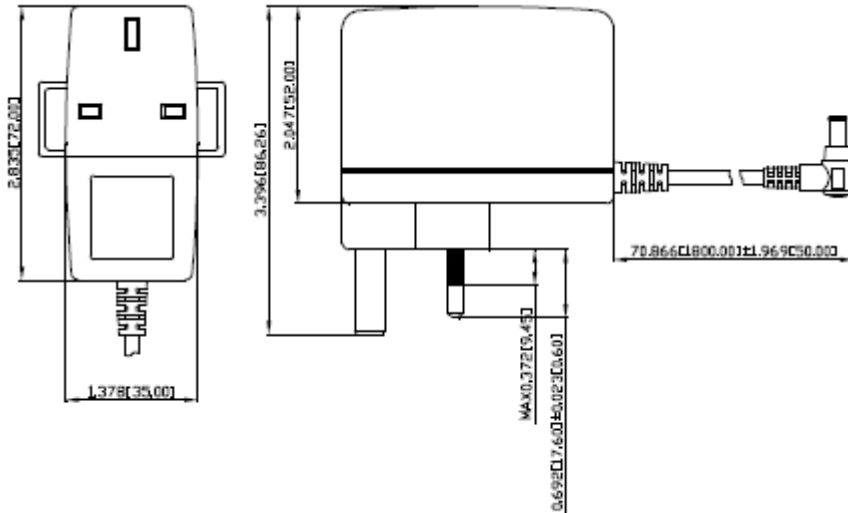


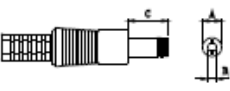
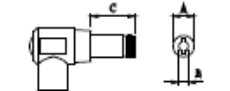
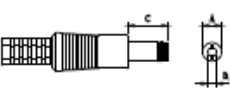
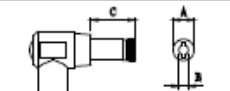
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# MECHANICAL SPECIFICATION

# Series DVTRG15

All Dimensions in Inches (mm); Tolerance: Inches: x.xxx=±0.02, mm: x.xx=±0.5



DC Plug Type	Cable Number -XXXXX	A	B	C	Cable Type	Cable Length	Cable AWG
		OD (mm)	ID (mm)	L (mm)			
 Straight/Inner+Outer- + ● -	11E03	Φ5.5	Φ2.1	12	UL1185	1800mm without Core	18AWG for Vo: 5V, 7.5V, 9V 20AWG for Vo: 12V, 13.6V, 15V, 18V, 24V
	12E03	Φ5.5	Φ2.5	12			
	23E03	Φ5.5	Φ2.1	9.5			
	26E03	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● -	01E03	Φ5.5	Φ2.1	12			
	02E03	Φ5.5	Φ2.5	12			
	21E03	Φ5.5	Φ2.5	9.5			
	24E03	Φ5.5	Φ2.1	9.5			
 Straight/Inner+Outer- + ● -	11E02	Φ5.5	Φ2.1	12	UL1185	1220mm without Core	16AWG for Vo: 6V
	12E02	Φ5.5	Φ2.5	12			
	23E02	Φ5.5	Φ2.1	9.5			
	26E02	Φ5.5	Φ2.5	9.5			
 Right Angle/Inner+Outer- + ● -	01E02	Φ5.5	Φ2.1	12			
	02E02	Φ5.5	Φ2.5	12			
	21E02	Φ5.5	Φ2.5	9.5			
	24E02	Φ5.5	Φ2.1	9.5			

Other DC Plug Type on request

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