



# 10 Watt Switching Adapter Wall Mount Series DVTRG10R



## Features

- Universal Input: 90 – 264Vac
- High Efficiency up to 84%
- Interchangeable AC Plugs
- Class II
- No Load Power Consumption < 75mW
- Approved IEC/EN/UL 62368-1
- Meets EN55032 Class B and CISPR/FCC Class B
- Operating Altitude 2000m
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meets CoC Tier 2 & DoE Level VI

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	MAX. LOAD [ mA ]	VOLTAGE ACCURACY [ % ] (NOTE2)	RIPPLE & NOISE [ mVp-p ] (NOTE2)	LOAD REG. [ % ] (NOTE4)	EFF. [ % ] TYP. (NOTE5)	LOAD CAPACITANCE [ µF ] (NOTE3)
TRG10R050	5	1600	±2	50	±4	77	1600
TRG10R059	5,9	1500	±2	60	±3	80	1500
TRG10R060	6	1500	±2	60	±3	82	1500
TRG10R075	7,5	1200	±2	75	±3	82	1200
TRG10R090	9	1100	±2	90	±2	84	1100
TRG10R120	12	850	±2	120	±2	82	850
TRG10R136	13,6	750	±2	136	±2	83	750
TRG10R150	15	700	±2	150	±2	83	700
TRG10R180	18	550	±2	180	±2	83	550
TRG10R240	24	400	±2	240	±2	83	400

NOTE:

1. Voltage accuracy is set at 60% full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
3. Vin=115Vac and 230Vac; 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	AC Plug Type	DC Plug Type	Cable	DC Cable Length
10W I.T.E Adapter	TRG10R	XXX	-XXXX	-XX	XX
	050 : 5V	-ASUE : Include 4 Type	STANDARD OUTPUT DC PLUG	E: UL1185 with OVP	01: 720mm
	059 : 5,9V	Blank : Order Separately AC Adapter A: American type S: Australian type U: U.K. type E: European type			02: 1220mm
	060 : 6V				03: 1800mm
	075 : 7,5V				11: 720mm with Ferrite Core
	090 : 9V				12: 1220mm with Ferrite Core
	120 : 12V				13: 1800mm with Ferrite Core
	136 : 13,6V				
	150 : 15V				
	180 : 18V				
240 : 24V					

Example:

TRG10R120-01E03, 12Vdc Output, DC Jack Type, Cable Length 1800mm

TRG10R120-ASUE-01E03, 12Vdc Output, Include 4 Type AC Plug, DC Jack Type, Cable Length 1800mm

Technische Änderungen vorbehalten / Specifications are subject to change without notice

## INPUT SPECIFICATIONS:

Input Voltage Range.....	90-264Vac
	120-370Vdc
Frequency.....	47 to 63Hz
Input Current.....	0,4A max.
Inrush Current.....	Vin=240Vac, Cold start at 25°C ..... 40A max.
Leakage Current.....	250µA max.

## OUTPUT SPECIFICATIONS:

Hold-up Time.....	Vin = 115Vac ..... 10mS typ.
Line Regulation.....	Vin=100Vac to 240Vac ..... ±1.0% max.
Over Voltage Protection.....	Auto Recovery ..... TVS Component to Clamp
Over Current Protection.....	Auto Recovery ..... 110% min / 180% max.
Short Circuit Protection.....	Auto Recovery ..... Continuous

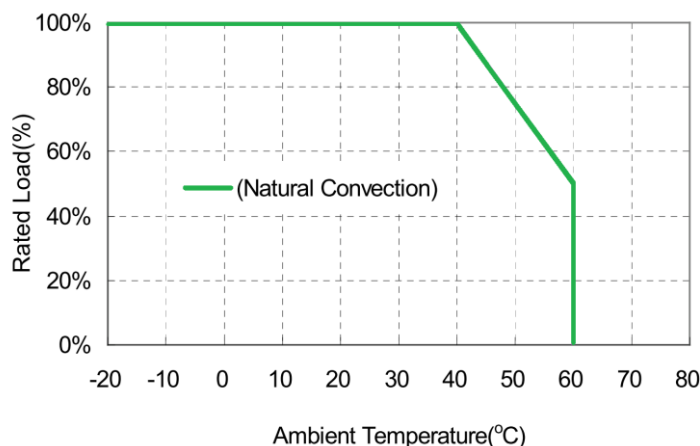
## GENERAL SPECIFICATIONS:

Isolation Input to Output.....	1 minute ..... 3000VAC max.
Isolation Resistance.....	Input to Output ..... 100 MΩ min.
Switching Frequency.....	Pout=max. rated power ..... 67KHz typ.
Operating Case 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.....	..... 2000m max.
Shock.....	MIL-STD-810F Table 516.5 ..... 75g typ.
Vibration.....	MIL-STD-810F Table 514.5C-VIII ..... 4g typ
Dimensions.....	72,6 x 46,3 x 35,6 mm
Weight.....	130g typ.

## SAFETY & EMC:

Safety.....	Class II, IEC/EN/UL 62368-1/60950-1
EMC Emission.....	EN 55032:2012 +AC:2013, EN 61000-3-2:2014 and EN 61000-3-3:2013 FCC 47 CFR Part 15 Subpart B/Sep. 2007 and CISPR 22/1997 (Class B Limit)
Conducted Disturbance.....	EN 55032:2012 +AC:2013 Class B
Radiated Disturbance.....	EN 55032:2012 +AC:2013 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 61000-4-2/2001, Air Discharge: ±8kV, Contact Discharge: ±4kV
Radio-Frequency, Continuous, Radiated Disturbance.....	IEC 61000-4-3
Electrical Fast Transient (EFT).....	IEC 61000-4-4
Surge.....	IEC 61000-4-5/5005
Conducted Disturbances, Induced by RF Fields.....	IEC 61000-4-6
Power Frequency Magnetic Field.....	IEC 61000-4-8
Voltage Dips.....	IEC 61000-4-11/2004, Dips: 30% Reduction, Dips: >95% Reduction
Voltage Interruptions.....	IEC 61000-4-11/2004, >95% Reduction

## Derating Curve

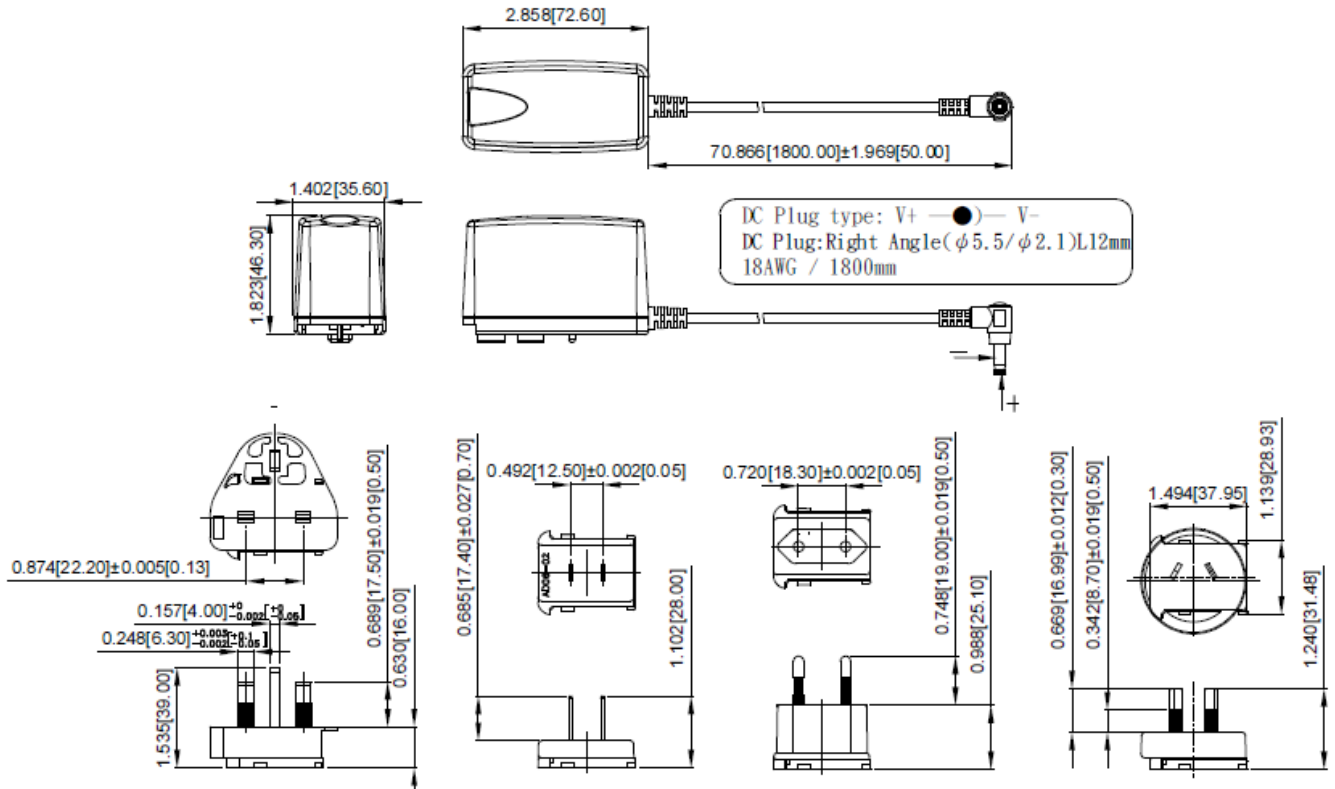


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# MECHANICAL SPECIFICATION

Series DVTRG10R

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



TYPE				
	U.K type (U)	American type (A)	European type (E)	Australian type (S)

Ordering AC Plugs: Order Number / Model

Europe: 17IP.030.001 / TRG10R-E

USA: 17IP.030.002 / TRG10R-A

Australia: 17IP.030.003 / TRG10R-S

UK: 17IP.030.004 / TRG10R-U

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, 5.9V, 6V, 7.5V, 9V 20AWG for Vo: 12V, 13.6V 22AWG for Vo: 15V, 18V 24AWG for Vo: 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			

Other DC Plug Type on request

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