

# TRG30R V

S E R I E S

## 30W SWITCHING ADAPTER



### Features

- Universal Input Range 90-264VAC
- Interchangeable AC Plugs
- Meets EN61204-3 Class B and CISPR/FCC Class B, Conducted
- Continuous Short Circuit Protection
- Over Voltage Protection
- Meet CEC & ErP Level V (Output Cable Length  $\leq$  1800mm) (TRG30R050V, TRG30R090V: Output Cable Length  $\leq$  1220mm)

### Ordering information

TRG30RXXX -	XX	E	XX	-	XX	-BK
Model No.	DC Plug Type	DC Cable Length and Type	Color of Overmold Case			
	* Please see Page215 for more detailed descriptions	01 : 720mm 02 : 1220mm 03 : 1800mm 11 : 720mm with Ferrite Core 12 : 1220mm with Ferrite Core 13 : 1800mm with Ferrite Core * 18AWG / UL1185 * 16AWG / UL1185 for 5V, 9V	BE : Blue GY : Gray RD : Red PE : Purple OR : Orange			

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	%EFF. (Typ.)
TRG30R050V	5V	4.0A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 6%	80%
TRG30R090V	9V	3.0A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	84%
TRG30R120V	12V	2.5A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 3%	84%
TRG30R150V	15V	2.0A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	85%
TRG30R180V	18V	1.67A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	85%
TRG30R240V	24V	1.25A	0A	1%	$\pm$ 2%	$\pm$ 1%	$\pm$ 2%	86%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90-264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 100Vac/0.8A max., 240Vac/0.5A max.  
 Inrush Current ..... Cold start@25°C 100A 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

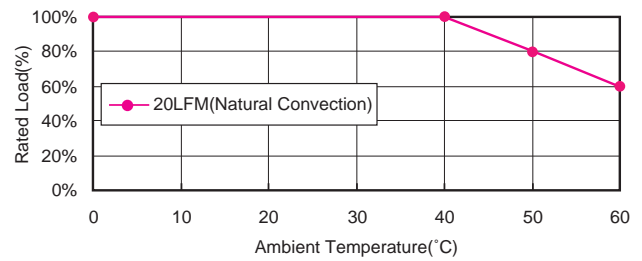
### GENERAL SPECIFICATIONS:

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 ..... 70KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 4.243x2.267x1.319Inches (107.77x57.60x33.50mm)  
 Weight ..... 300g(0.66 Pounds)

### SAFETY AND EMC:

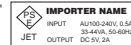
Emission and Immunity ..... EN61204-3, EN61000-3-2, EN61000-3-3  
 FCC CFR Title 47 Part 15 Subpart B  
 Safety ..... IEC60950-1, UL60950-1, EN60950-1

## TRG30R V Series Derating Curve



### NOTE:

- Voltage setpoint at 60% load.
- Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW
- Line regulation measured from 100Vac to 240Vac, full load
- Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load)
- \*Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below. If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local representative for details\*



## Mechanical Specification

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

