

Features

LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection
- PSE Certified for Japan market

Description

The new RACD150-PSE series are perfect for indoor and outdoor applications whether they are running on 115VAC including road, street and walkway lighting, LED signage and outdoor area lighting for car parks, public buildings and tunnels. The RACD150-PSE series offers 150W of power with the universal input voltage range and IP67 rating, but with constant current output from 11A to 3.2A at voltages from 12V up to 48V.

Selection Guide

Part Number	CV Mode		CC Mode		Efficiency (115VAC) (typ.)
	Constant Voltage (V)	Current Range (A)	DC Voltage Range (V)	Constant Current (A)	
RACD150-12-PSE	12	0-11	9-12	11	85%
RACD150-24-PSE	24	0-6.3	14-24	6.3	87%
RACD150-36-PSE	36	0-4.2	26-36	4.2	90%
RACD150-48-PSE	48	0-3.2	34-48	3.2	90%

Specifications

Input Voltage Range	90-130 VAC	
Input Frequency Range	47-63Hz	
Power Factor	Full Load, 115VAC	>0.98
THD	Full Load, 115VAC	8% max.
AC Current	115VAC	2A max.
Input / Output Isolation	3.75kVAC / 1minute	
Input / Case Isolation	1.8kVAC / 1minute	
Output / Case Isolation	0.5kVAC / 1minute	
Leakage Current	<0.5mA	
Current Tolerance	±5%	
Voltage Tolerance	-1% to 5%	
Start-up Time	Full Load, 115VAC	1.0s
Ripple & Noise (at 20MHz bandwidth)	150mVp-p max.	
Over Current Protection	95%-105% rated current	Auto-Recovery
Short Circuit Protection	Hiccup Mode	
Over Voltage Protection	12V	12.5V typ.
Latch Mode	24V	24.5V typ.
(Power off to recover)	36V	36.5V typ.
	48V	48.5V typ.
Over Temperature Protection	Tcase 95°C ±10°C	
Operating Temperature Range	Ambient Temperature	-20°C to +60°C (free air convection)
	Case Temperature	90°C max.
Operation Humidity	20%-90% RH Non-Condensing	
Storage Temperature	-40°C to +80°C	
Storage Humidity	10%-90% RH	
Vibration	10-500Hz, 2G, 60 Min. along X, Y and Z	
IP Rating	IP67	
EMC Standards (designed to meet)	EMC Compatibility	EN55015 FCC, Part 15
	Harmonic Current	EN61000-3-2 Class C (≥75% load) EN61000-3-3
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 11
Dimension	199.2*68*39mm	
Weight	1080g	
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours
Design Lifetime	70 x 10 ³ hours	

LIGHTLINE
AC/DC-Converter
with 5 Year Warranty

RECOM

**150 Watt
Single
Output**



RACD150-PSE

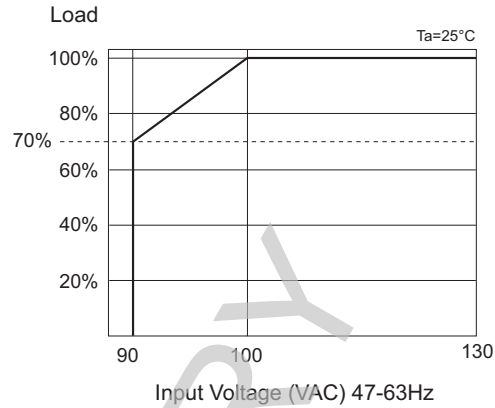
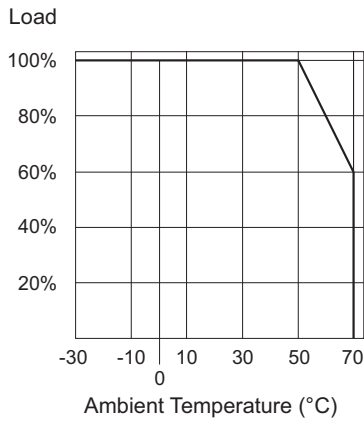
Note:

The use of a circuit breaker with C-characteristic is recommended.

All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

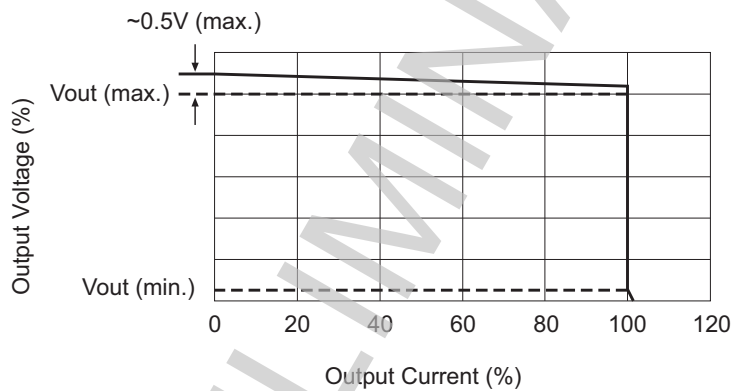
Refer to Application Notes

Derating Curve

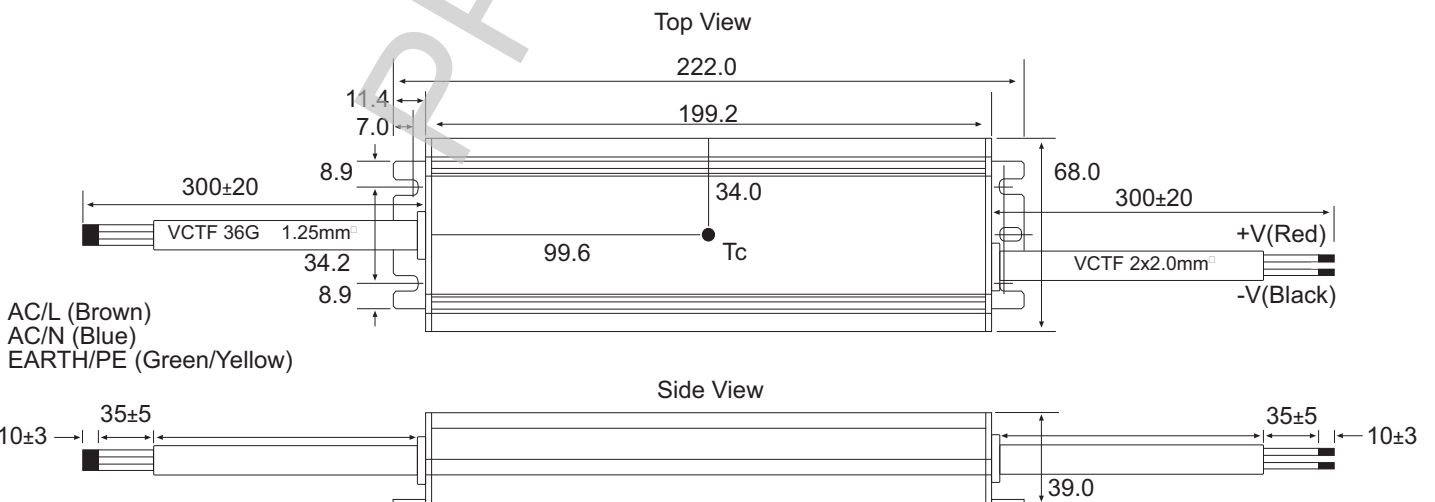


Characteristics

Constant Voltage / Constant Current Curve



Package Style and Pinning



RACD150-PSE