## Features

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

### Description

The RACD100-PSE LED driver series offers 100W of power with a universal input voltage range of 90-130VAC and constant current output up to 8.3A at a voltage of approximately 12V. The series features a unique dual mode operation for either constant current or constant voltage making it suitable for driving LEDs directly or via local constant-current DC/DC modules directly on the light engine board. The RACD100-PSE series are fully sealed IP67 LED drivers and therefore ideally suited for indoor and outdoor applications including road, street and walkway lighting, high-bay, LED signage, and outdoor area lighting for car parks, public buildings, and tunnels. The LED drivers are PSE certified and come with a 5 year warranty.

### **Selection Guide**

Part	CV Mode		CC N	Efficiency	
Number	Constant Voltage	Current Range	DC Voltage Range	<b>Constant Current</b>	(115VAC)
	(V)	(A)	(V)	(A)	(%)
RACD100-12-PSE	12	0-8.3	9-12	8.3	87
RACD100-24-PSE	24	0-4.2	14-24	4.2	87
RACD100-36-PSE	36	0-2.8	26-36	2.8	89
RACD100-48-PSE	48	0-2.1	34-48	2.1	88

### **Specifications**

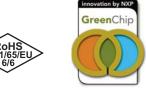
Input Voltage Range		90-130 VAC or 127-184VDC		
Input Frequency Range		47-63Hz.		
Power Factor	Full Load, 115VAC	>0.98		
THD	Full Load, 115VAC	8% max		
AC Current	115VAC	1.4A max		
Input/Output Isolation		3.75kVAC / 1minute		
Input/Case Isolation		1.8kVAC / 1minute		
Output/Case Isolation		0.5kVAC / 1 minute		
Leakage Current		<0.75mA		
Voltage Tolerance		-1% to 5%		
Start-up Time	Full Load, 115VAC	1.5s		
Ripple & Noise (at 20MHz bandwith	1)	150mVp-p max.		
Over Current Protection	95%-105% rated current	Auto-Recovery		
Short Circuit Protection		Hiccup Mode		
Over Voltage Protection	12V	15V typ.		
Latch Mode	24V	31V typ.		
(Power off to recover)	36V	45V typ.		
	48V	58V typ.		
Over Temperature Protection		Tcase 95°C ±10°C		
Operating Temperature Range	without derating	-20°C to +50°C( see graph)		
(free air convection, according to PS	SE) Case Temperature	75°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		
	- J	continued on next Page		

**LIGHTLINE** AC/DC-Converter with 5 year Warranty



# 100 Watt Single Output





# RACD100-PSE

#### Note:

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.

### LIGHTLINE AC/DC-Converter

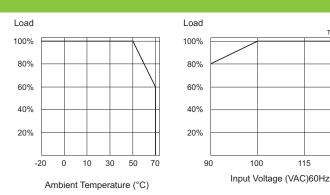
# RACD100-PSE Series

### **Specifications**

poolinoutiono		
PSE Certification		J61347-1(H20), J61347-2-13(H21), J55015(H20)
Dimension		222*68*39mm
Weight		1020g
MTBF	using MIL-HDBK-217F (25°C)	250 x 10 <sup>3</sup> hours
Design Lifetime		70 x 10 <sup>3</sup> hours

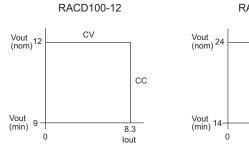
The use of a circuit breaker with C-characteristic is recommended.

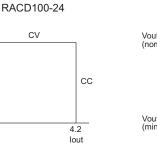
### **Derating Curves**

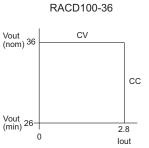


### **Typical Characteristics**

### Constant Voltage / Constant Current Curve







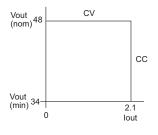
115

Ta=25°C

130

39.0



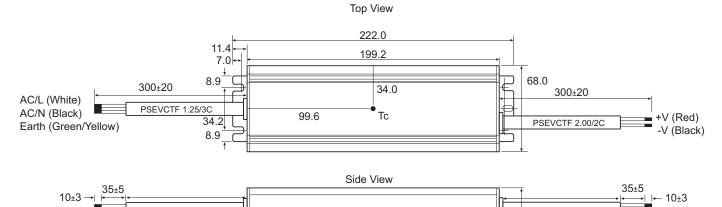




### Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current			
	Тур	10A	16A	20A	25A
115VAC, 10hm 90° phase angle	С	7	12	14	18

### Package Style and Pinning



The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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