



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Features

## LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- CE and ENEC Certified Class 1 LED Driver
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection

### Selection Guide

Part Number	CV Mode		CC Mode		Efficiency (230VAC) (%)
	Constant Voltage (V)	Current Range (A)	DC Voltage Range (V)	Constant Current (A)	
RACD100-12-ENEC	12	0-8.3	9-12	8.3	88
RACD100-24-ENEC	24	0-4.2	14-24	4.2	90
RACD100-36-ENEC	36	0-2.8	26-36	2.8	90
RACD100-48-ENEC	48	0-2.1	34-48	2.1	91

### Specifications

Input Voltage Range	90-305 VAC or 127-430VDC	
Input Frequency Range	47-63Hz.	
Power Factor	Full Load, 115VAC	>0.98
	Full Load, 230VAC	>0.95
	Full Load, 277VAC	>0.94
THD	Full Load, 115VAC	8% max.
AC Current	115VAC	0.7A max.
	230VAC	1.4A max.
Input/Output Isolation	3.75kVAC	
Input/Case Isolation	1.8kVAC	
Output/Case Isolation	0.5kVAC	
Leakage Current	240VAC	<0.75mA
Voltage Tolerance	-1% to 5%	
Set up Time	115VAC	1.5s
(@ Full Load)	230VAC / 277VAC	0.7s
Ripple & Noise	48V Version	200mV max.
	others	150mV 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	
Operation Temperature	(Refer to Output Load Derating Curve) -30°C to +70°C	
Operation Humidity	20%-90% RH Non-Condensing	
Storage Temperature	-40°C to +80°C	
Storage Humidity	10%-90% RH	
Vibration	2G 10min/1Cycle, Period for 60 min	10-500Hz
IP Rating	IP67	
Safety Standards	RCM (U21457)	AS/NZS 61347.1:2002, IEC 61347-2-13
	ENEC General Safety	EN 61347-1: 2008
	Safety of AC supplied Control Gear for LED Modules	EN 61347-2-13: 2006
EMC Standards	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	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.

# LIGHTLINE

AC/DC-Converter  
with 5 year Warranty

## RECOM

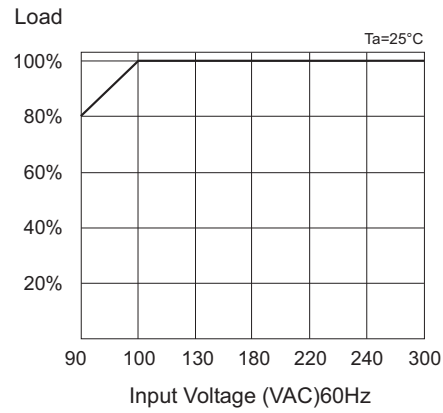
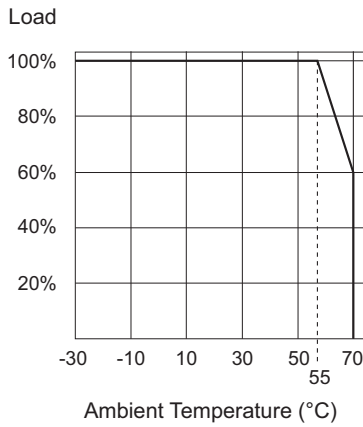
# 100 Watt Single Output



**EN 61347 Certified**  
**EN 62384 Certified**

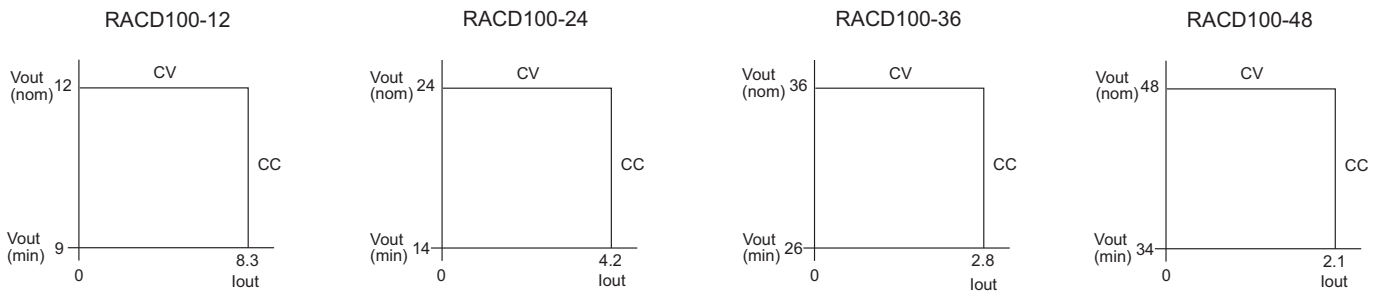
## RACD100-ENEC

## Derating Curve



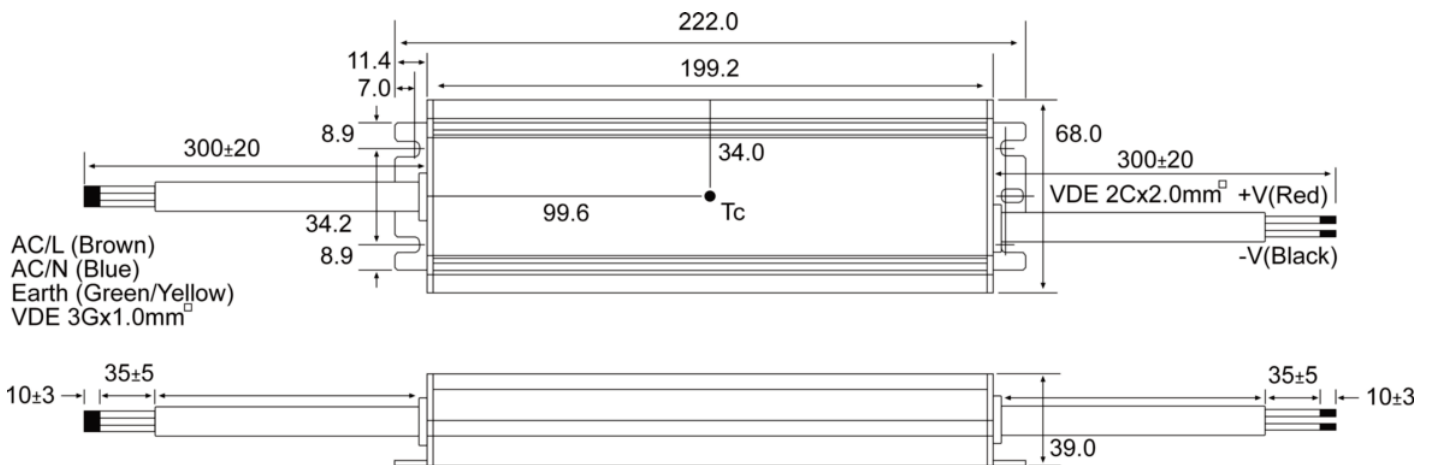
## Characteristics

Constant Voltage / Constant Current Curve



## Package Style and Pinning

3rd angle projection



RACD100