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 Constant Voltage (V)	CV Mode Current Range (A)	CC Mode DC Voltage Range (V)	CC Mode Constant Current (A)	Efficiency (230VAC) (%)
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 10^3 hours
Design Lifetime		70 x 10^3 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



RoHS 2011/65/EU 6/6

innovation by NXP GreenChip

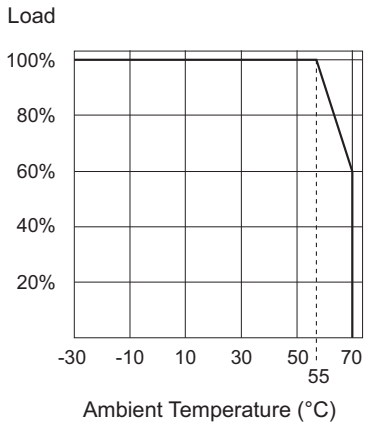
EN 61347 Certified

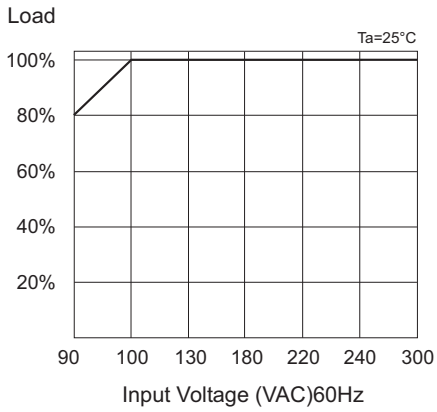
EN 62384 Certified

RACD100-ENEC

RACD100-ENEC Series

Derating Curve

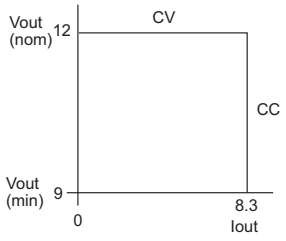




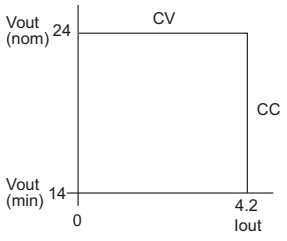
Characteristics

Constant Voltage / Constant Current Curve

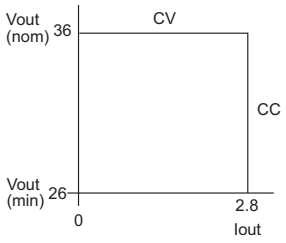
RACD100-12



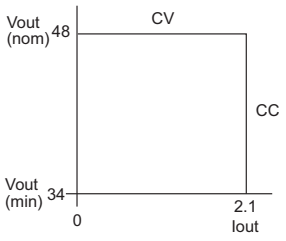
RACD100-24



RACD100-36



RACD100-48



Package Style and Pinning

3rd angle projection

