

Features LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- CE and ENEC Certified Class I 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) (typ.)
	Constant Voltage (V)	Current Range (A)	Constant Voltage (V)	Constant Current (A)	
RACD150-12-ENEC	12	0-1.1	9-12	11	88%
RACD150-24-ENEC	24	0-6.3	14-24	6.3	90%
RACD150-36-ENEC	36	0-4.2	20-36	4.2	90%
RACD150-48-ENEC	48	0-3.2	34-48	3.2	90%

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	2A max.
	230VAC	1A max.
Input / Output Isolation	3.75kVAC / 1minute	
Input / Case Isolation	1.8kVAC / 1minute	
Output / Case Isolation	0.5kVAC / 1minute	
Leakage Current	230VAC	<0.5mA
Current Tolerance	±5%	
Voltage Tolerance	-1% to 5%	
Start-up Time	115VAC	1.0s
(@ Full Load)	230VAC / 277VAC	0.8s
Ripple & Noise	48V Version	200mV max.
	others	150mV max.
(with 20MHz bandwidth & 47µF Elco + 0.1µF MLCC)		
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	without derating	-20°C to +50°C (see graph)
(free air convection, according to ENEC)	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	
Safety Standards	RCM (U21457)	AS/NZS 61347.1:2002
	ENEC General Safety	CB Report: IEC 61347-1: 2008
	ENEC Safety of AC Control Gear for LED Modules	CB Report: IEC 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
Performance Standard	controlgear for LED modules	CBReport: IEC 62384:2006

continued on next page

LIGHTLINE
AC/DC-Converter
with 5 Year Warranty

RECOM

**150 Watt
Single
Output**



EN 61347 Certified
EN 62384 Certified

RACD150-ENEC

Note:

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

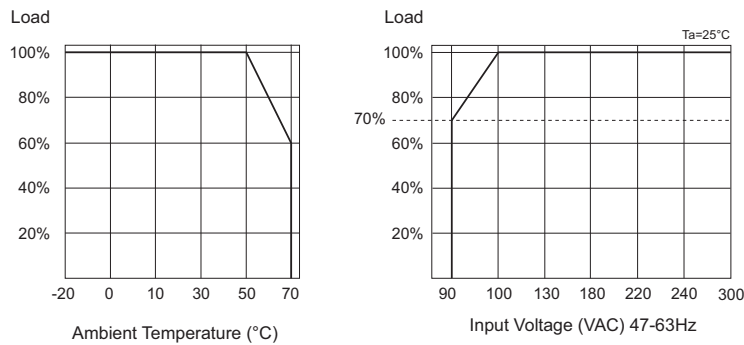
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Refer to Application Notes

Specifications

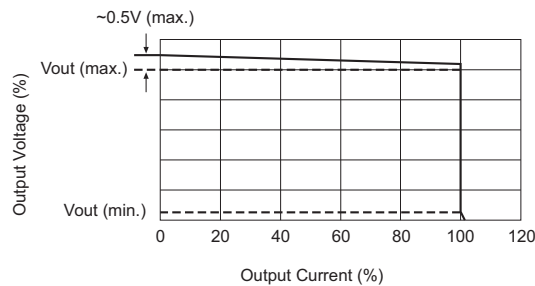
Dimension		222*68*39mm
Weight		1080g
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours
Design Lifetime		70 x 10 ³ hours

Derating Curves



Typical Characteristics

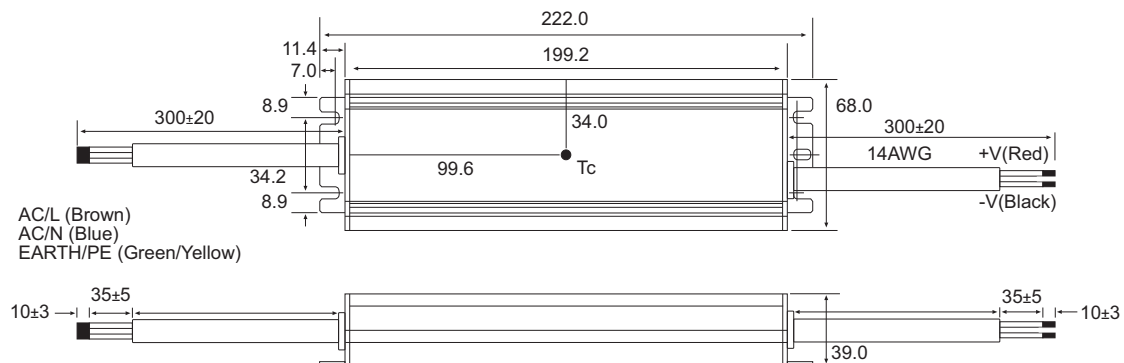
Constant Voltage / Constant Current Curve



Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current			
	Typ	10A	16A	20A	25A
115VAC, 10hm 90° phase angle	C	5	8	9	12
230VAC, 10hm 90° phase angle	B	4	7	8	9
	C	5	13	16	19
277VAC, 10hm 90° phase angle	B	5	8	9	11
	C	9	15	18	21

Package Style and Pinning



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