

Features

LED DRIVER

- High Output Voltage
- Universal AC Input
- Constant Current Operation
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Compact Size

Description

The new RACD150A LED drivers offer constant output currents of 1400mA, 1050mA or 700mA, with voltages from 60V up to 210V. The series supports dimming via PWM or 1-10V signals and is fully IP67 sealed for outdoor as well as indoor applications. With their wide input voltage range of 90 to 305VAC, the new drivers can be used worldwide on 115Vac, 230Vac and 277Vac supplies. The converters operate with full load efficiencies of more than 93%, feature low THD (15%) and active PFC with power factors exceeding 0.98, and are fully protected against short circuit, overload and over-temperature conditions. Applications include high-power area lighting as well as car parks, warehouse or security lighting. The LED drivers are UL8750 and EN61347 certified, comply with FCC and European EMC standards and come with a full 5 year warranty.

Selection Guide

Part Number	Input Voltage Range (VAC)	Rated Power (W)	Output Voltage Range (VDC)	Rated Output Current (mA)	Efficiency (%)
RACD150-700A	90-305	147	60-210	700	92
RACD150-1050A	90-305	±150	60-143	1050	92
RACD150-1400A	90-305	±150	60-107	1400	91

Specifications (measured at 230VAC and 25°C ambient temperature)

Input Voltage Range	90-305 VAC or 127-430VDC	
Input Frequency Range	47-63Hz.	
Power Factor	Full Load, 120VAC	>0.98
	Full Load, 240VAC	>0.94
	75% Load, 240VAC	>0.90
THD (@ 230VAC/50Hz)	700A	±10%
	1050A, 1400A	±11%
Input Current	115VAC	2A max.
	240VAC	1A max.
Input/Output Isolation	3.75kVAC	
Input/Case Isolation	1.8kVAC	
Output/Case Isolation	0.5kVAC	
Leakage Current	230VAC	<0.75mA
Inrush Current	240VAC	cold start 65A max.
Voltage Tolerance	±10%	
Current Tolerance	±5%	
Set-up Time (@ full load)	240VAC	<3sec
Ripple & Noise (@20MHz bandwidth) ⁽¹⁾	2000mV max.	
Over Voltage Protection	105 - 130% Rated Voltage	Shutdown Mode
Short Circuit Protection	Constant current limit and recovers after fault condition is removed	
Over Temperature Protection	Shutdown Mode	
Operation Temperature	(Refer to Output Load Derating Curve)	-40°C to +55°C
Operation Humidity	20%-90% RH Non-Condensing	
Storage Temperature	-40°C to +80°C	
Storage Humidity	10%-95% RH	
Vibration	2G 10min/1Cycle, Period for 60 min	10-500Hz
Isolation Resistance	100MΩ / 500VDC at 25°C	
IP Rating	IP67	
Safety Standards	UL/cUL LED Lighting Safety (Pending)	UL8750
	CE LVD Directive, Safety	EN61347-2-13

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LIGHTLINE
AC/DC-Converter
with 5 year Warranty

RECOM

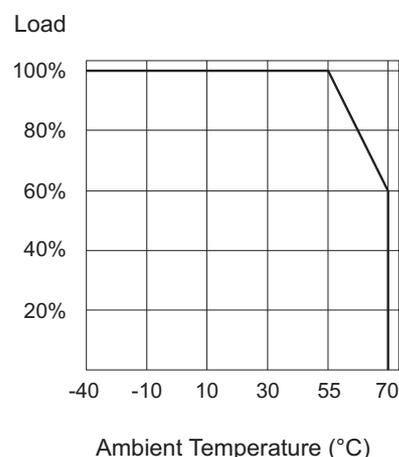
**150 Watt
Single
Output**



**UL 8750 Pending
EN 61347 Certified**

RACD150-A

Derating Graph

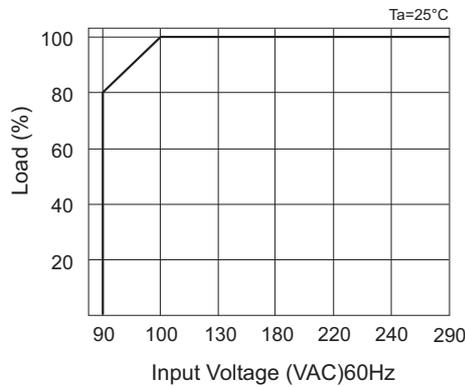


Specifications (measured at 115VAC / 230VAC and 25°C ambient temperature)

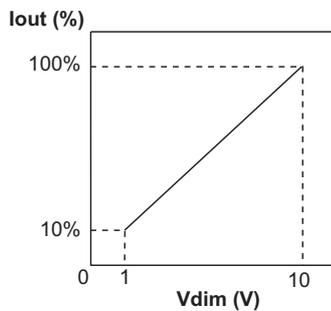
EMC Standards	EMC Compatibility	EN55015 FCC, Part 15
	Harmonic Current	EN61000-3-2 Class C EN61000-3-3
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 11 EN61547
Dimension		226*68*39mm
Weight		1.1kg
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours

Notes:

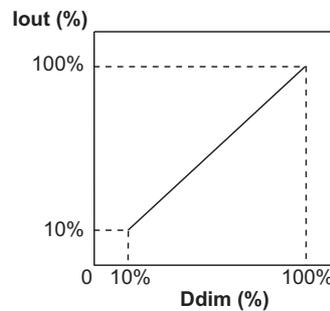
Note1: Ripple and Noise are measured at 20MHZ bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel application



DC Voltage Dimming Curve



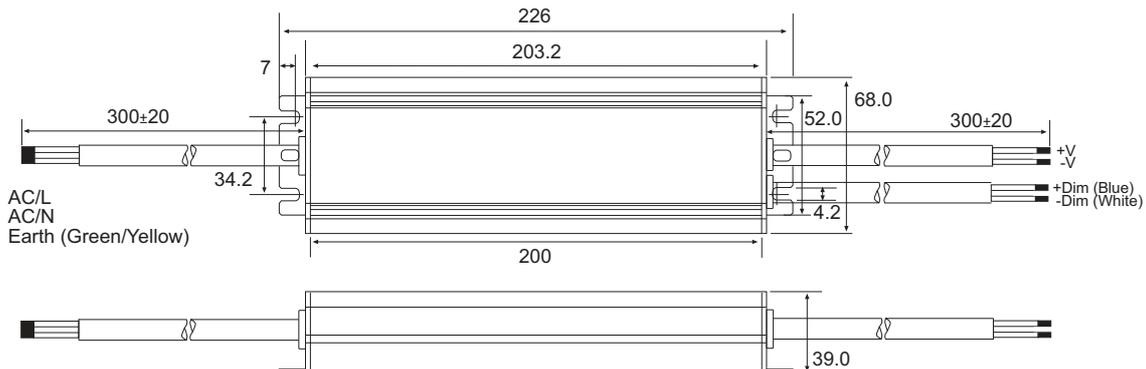
PWM Dimming Curve



Note: Resistor dimming is only possible with a digital potentiometer (current sink), like the RECOM REPOT

Pule: Hi = 10V, Low = 0V
Frequency: 500 - 3KHz

Package Style and Pinning



The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.