Features

- High Output Voltage
- Universal AC InputConstant Current Operation

LED DRIVER

- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Compact Size
- Digital PWM and Analogue Voltage Dimming

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		
DC Dimming	Open = 100%		DC 1-10V		
PWM Dimming	Open = 100%		Duty 10% - 100%		
	Freq.		500Hz - 3000Hz		
	Voltage		Hi=10V, Low=0V		
THD (@ 230VAC/50Hz)	700A		±10%		
	1050A, 1400A		±11%		
Input Current	115VAC		2A max.		
	240VAC		1A max.		
Input/Output Isolation			3.75kVAC / 1min		
Input/Case Isolation	1.8kVAC / 1min				
Output/Case Isolation			0.5kVAC / 1min		
Leakage Current	230VAC		<0.75mA		
Inrush Current	240VAC	cold start 65A max.			
Voltage Tolerance			±10%		
Current Tolerance			±5%		
Ripple & Noise (@20MHz bandwidth) (1)			2000mV max.		
Over Voltage Protection	105 - 130% Rated Voltage Shutdown Mode				
Short Circuit Protection	Constant current li	mit and recovers a	after fault condition is removed		
Over Temperature Protection			Shutdown Mode		
Operating Temperature Range (Refer to Ou	tput Load Derating Curve)	Ambient	-40°C to +55°C		
(free air convection)			re 100°C max.		
Operation Humidity		2	0%-90% RH Non-Condensing		
Storage Temperature			-40°C to +80°C		
Storage Humidity			10%-95% RH		
Vibration	2G 10min/1Cycle, P	eriod for 60 min	10-500Hz		
			continued on next page		

LIGHTLINE AC/DC-Converter with 5 year Warranty



150 Watt Single Output





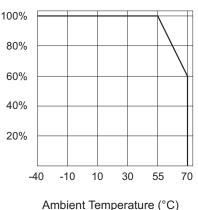
UL 8750 Certified EN 61347 Certified



Derating-Graph

(Ambient Temperature)





Refer to Application Notes

LIGHTLINE AC/DC-Converter

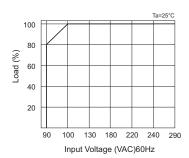
RACD150-A Series

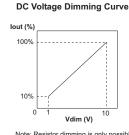
Specifications (measured at 115VAC / 230VAC and 25°C ambient temperature)

solation Resistance 100M Ω / 500VDC at 25				
		IP67		
UL/cUL LED Lighting Safety	Report: E340696	UL8750		
CE LVD Directive, Safety	Report: 12CA61289-1	EN61347-2-13		
CB	Report: 11036253 001	IEC61347-2-13		
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,			
		EN61547		
		226*68*39mm		
		1.1kg		
using MIL-HDBK-217F (25°C)		200 x 10 ³ hours		
	CE LVD Directive, Safety CB EMC Compatibility Harmonic Current EMC Immunity	UL/cUL LED Lighting Safety Report: E340696 CE LVD Directive, Safety Report: 12CA61289-1 CB Report: 11036253 001 EMC Compatibility Harmonic Current EN EMC Immunity EN61000		

Notes:

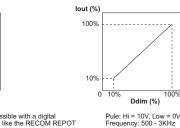
Ripple and Noise are measured at 20MHZ bandwith by using a12" twisted pair-wire terminated with 0.1uf & 47uf paralell application Note1: All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED Note2: or reduce its lifetime.







Ddim (%)



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

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	5	8	9	12
230VAC, 10hm	B	4	7	8	9
90° phase angle	С	5	13	16	19
277VAC, 10hm	В	5	8	9	11
90° phase angle	С	9	15	18	21

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.

RACD150-A

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