## **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	Rated Power	Output Voltage Range	Rated Output Current	Efficiency
	(VAC)	(W)	(VDC)	(mA)	(%)
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

pecifications (measured at 230VAC a	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	peration Humidity 20%-90% RH Non-Condensir			
Storage Temperature		-40°C to +80°C		
Storage Humidity		10%-95% RH		
Vibration	2G 10min/1 Cycle, 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		
		continued on next page		

### LIGHTLINE

AC/DC-Converter with 5 year Warranty



# 150 Watt Single Output



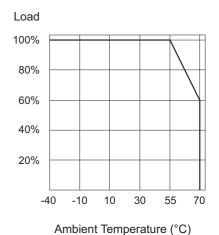


CE

UL 8750 Pending EN 61347 Certified

RACD150-A

## **Derating Graph**





# RACD150-A Series

**EMC Standards** EN55015 **EMC Compatibility** FCC, Part 15

> Harmonic Current EN61000-3-2 Class C

> EN61000-3-3

**EMC Immunity** EN61000-4-2, 3, 4, 5, 6, 11

EN61547

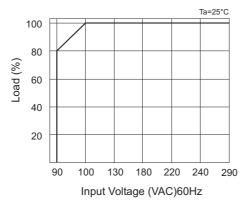
Dimension 226\*68\*39mm

Weight 1.1kg 200 x 103 hours

MTBF using MIL-HDBK-217F (25°C)

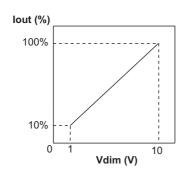
Notes:

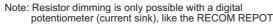
Ripple and Noise are measured at 20MHZ bandwith by using a12" twisted pair-wire terminated with 0.1uf & 47uf paralell application Note1:

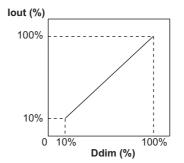


### **DC Voltage Dimming Curve**

### **PWM Dimming Curve**

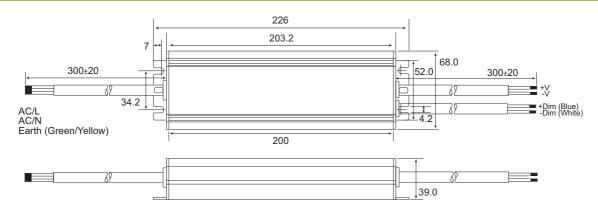






Pule: Hi = 10V, Low = 0V Frequency: 500 - 3KHz

### **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.