Features

EMC Standards

Dimension

Design Lifetime

Weight

MTBF

LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- CE and UL Certified Class | LED Driver
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection

AC/DC-Converter with 5 Year Warranty

LIGHTLINE

RECOM

150 Watt Single Output



UL 8750 Certified EN 61347 Certified

RACD150

Note:

EN55015 FCC. Part 15

EN61000-3-3

222*68*39mm

200 x 103 hours

70 x 103 hours

1080g

EN61000-3-2 Class C (≥75% load)

EN61000-4-2, 3, 4, 5, 6, 11

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

Selection Guide Part **CV** Mode **CC Mode** Efficiency Constant Voltage Current Range DC Voltage Range Constant Current (230VAC) (V) (A) (A) (typ.) RACD150-12 12 0-11 9-12 11 88% RACD150-24 24 0-6.3 14-24 6.3 90% RACD150-36 36 4.2 0-4.2 26-36 90%

RACD150-48 34-48 3.2 48 0 - 3.290% **Specifications** Input Voltage Range 90-305 VAC or 127-430VDC Input Frequency Range 47-63Hz. Full Load, 115VAC Power Factor >0.98 Full Load, 230VAC >0.95 Full Load, 277VAC >0.94THD 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. 150mV max. others (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 -30°C to +50°C (see graph) (free air convection, according to CE/UL) 90°C max. Case Temperature 20%-90% RH Non-Condensing Operation Humidity -40°C to +80°C Storage Temperature Storage Humidity 10%-90% RH Vibration 10-500Hz, 2G, 60 Min. along X, Y and Z **IP Rating** IP67 UL/cUL LED Lighting Safety (E340696) Safety Standards cUL8750 CE LVD Directive. Safety EN61347-2-13 Report: 12CA61289-1 IEC61347-2-13

EMC Compatibility

Harmonic Current

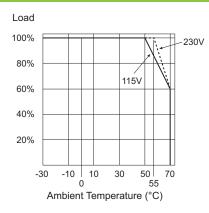
EMC Immunity

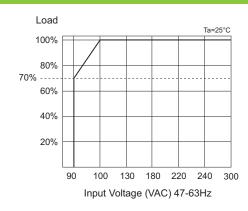
using MIL-HDBK-217F (25°C)

LIGHTLINE AC/DC-Converter

RACD150 Series

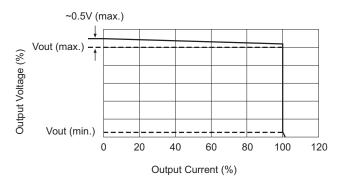
Derating Curves





Typical Characteristics

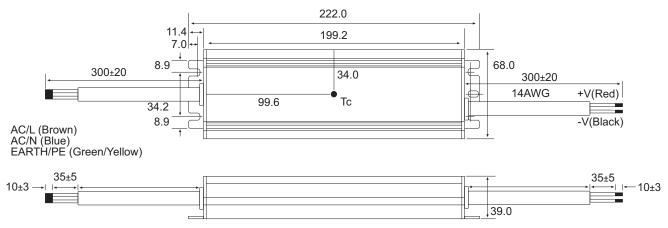
Constant Voltage / Constant Current Curve



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 90° phase angle	В	4	7	8	9
	С	5	13	16	19
277VAC, 10hm 90° phase angle	В	5	8	9	11
	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.