Features

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

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Part	CV Mode		CC Mode		Efficiency
	Constant Voltage	Current Range	DC Voltage Range	Constant Current	(230VAC)
	(V)	(A)	(V)	(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	0-4.2	26-36	4.2	90%
RACD150-48	48	0-3.2	34-48	3.2	90%

Specifications

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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 E	lco + 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) Case Temperature	90°C max.
Operation Humidity		20%-90% RH Non-Condensing
Storage Temperature		-40°C to +80°C
Storage Humidity		10%-90% RH
Vibration	10-50	00Hz, 2G, 60 Min. along X, Y and Z
IP Rating		IP67
Safety Standards	UL/cUL LED Lighting Safety (E340696	6) cUL8750
	CE LVD Directive, Safety	EN61347-2-13
	CB Report: 12CA61289	9-1 IEC61347-2-13
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
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
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LIGHTLINE

AC/DC-Converter with 5 Year Warranty



150 Watt Single Output



UL 8750 Certified EN 61347 Certified



Note:

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

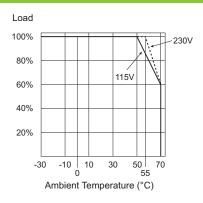
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

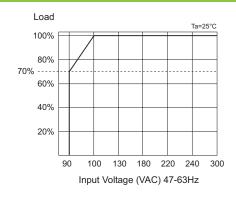
Refer to Application Notes

LIGHTLINE AC/DC-Converter

RACD150 Series

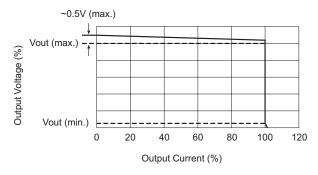
Derating Curves





Typical Characteristics

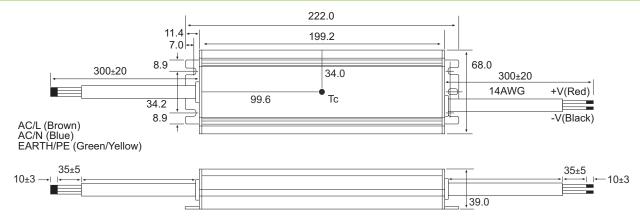
Constant Voltage / Constant Current Curve



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
	1		1		
230VAC, 10hm	В	4	7	8	9
90° phase angle	С	5	13	16	19
277VAC, 10hm	В	5	8	9	11
90° phase angle	C	9	15	18	21

Package Style and Pinning



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