## Features

- Universal AC Input
- Constant Voltage / Constant Current Operation
  CE and ENEC Certified Class I LED Driver

### **LED DRIVER**

**Snecifications** 

- Active Power Factor Correction
  IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection

Selection Guide						
Part	CV Mode		CC M	Efficiency		
Number	Cin,tai Vo ac	t-ur ent ta <u>c</u>	D.V.a. 🖻 R. tea	io s int ui ent	(230VAC)	
	(V)	(A)	(V)	(A)	(%)	
RACD100-12-ENEC	12	0-8-3	9-12	8.3	88	
RACD100-24-ENEC	24	0-4.2	14-24	4.2	90	
RACD100-36-ENEC	36	0-2		2.8	90	
RACD100-48-ENEC	43	0-2.T	34-48	2.1	91	

**LIGHTLINE** AC/DC-Converter with 5 year Warranty



## 100 Watt Single Output

Specifications					
Input Voltage Rang	е		90-305 VAC or 127-430VDC		
Input Frequency Ra	inge		47-63Hz.		
Power Factor	Full Load,	115VAC	>0.9		
	Full Load,	230VAC	>0.95		
	Full Load,	277VAC	>0.94		
THD	Full Load,	115VAC	8% max.		
AC Current	115VAC		0.7A max.		
	230VAC		1.4A max.		
Input/Output Isolati	on		3.75kVAC / 1 minute		
Input/Case Isolation	1		1.8kVAC / 1 minute		
Output/Case Isolati	on		0.5kVAC / 1 minute		
Leakage Current	240VAC		<0.75mA		
Voltage Tolerance			-1% to 5%		
Start-up Time	115VAC		1.5s		
(@ Full Load)	230VAC /	277VAC	0.7s		
Ripple & Noise	48V Versio	n	200mV max.		
	others		150mV max.		
Over Current Prote	ction 95%-105%	% rated current	Auto-Recovery		
Short Circuit Protect	tion		Hiccup Mode		
Over Voltage Protect	ction 12V		15V typ.		
Latch Mode	24V		31V typ.		
(Power off to recov	er) 36V		45V typ.		
	48V		58V typ.		
Over Temperature	Protection		Tcase 95°C ±10°C		
Operating Tempera	ture Range	without derating	-20°C to +50°C (see graph)		
(free air convection	, according to ENEC)	Case Temperature	75°C max.		
Operation Humidity			20%-90% RH Non-Condensing		
Storage Temperatu	re		-40°C to +80°C		
Storage Humidity			10%-90% RH		
Vibration			10-500Hz, 2G, 60 Min. along X, Y and Z		
IP Rating			IP67		
Safety Standards	RCM (U21457)		AS/NZS 61347.1:2002		
	ENEC General Safety		CB Report: IEC 61347-1: 2008		
	ENEC Safety of AC Control Gear for LED Modules		CB Report: IEC 61347-2-13: 2006		
EMC Standards	EMC Compatibility		EN55015		
			FCC, Part 15		
	Harmonic Current		EN61000-3-2 Class C (≥75% load)		
			EN61000-3-3		
	EMC Immu	inity	EN61000-4-2, 3, 4, 5, 6, 11		
		,			

RACD100-ENEC

#### Note:

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** 

continued on next page

## **LIGHTLINE** AC/DC-Converter

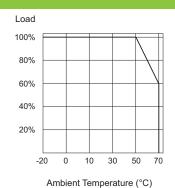
# RACD100-ENEC Series

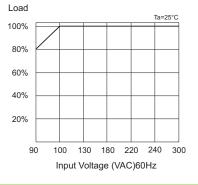
#### Specifications

comoutions		
erformance Standard controlgear for LED modules CB Report:		IEC 62384:2006
Dimension		222*68*39mm
Weight		1020g
MTBF	using MIL-HDBK-217F (25°C)	250 x 10 <sup>3</sup> hours
Design Lifetime		70 x 10 <sup>3</sup> hours

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

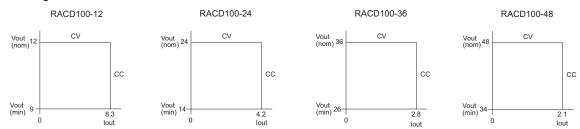
#### **Derating Curves**





#### **Typical Characteristics**

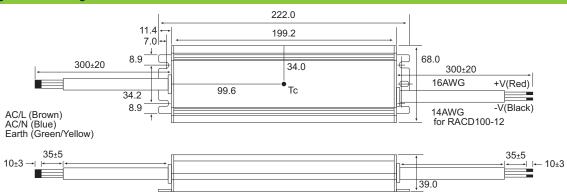
#### Constant Voltage / Constant Current Curve



#### 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	7	12	14	18
230VAC, 10hm	В	6	10	12	14
90° phase angle	С	13	22	24	31
277VAC, 10hm 90° phase angle	В	7	11	14	17
	С	15	25	29	36

#### Package Style and Pinning



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