Features

LED Driver

- Low profile case (13mm height max.)
- 350mA to 700mA constant current outputs
- Terminal block input/output with cable clamps
- Fully protected (OLP, SCP, OCP, OTP)
- Low standby power, ErP conform
- Low cost

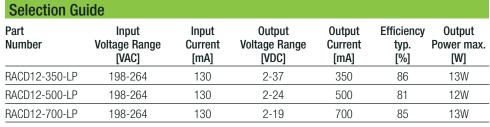
Description

These low profile constant current LED drivers have been designed for cost-sensitive applications. The SELV outputs are suitable for both independently supplied or built-in power-supply LED luminaires. Their low profile design allows them to be invisibly built into furniture, discreetly mounted under shelves or integrated in space-restricted applications such as coving lighting, strip lighting or troffer lighting systems. The power supplies are short circuit and overload protected and come with a full 3-year warranty.



RACD12-LP

12 Watt Constant Current Single Output



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.













IEC/EN61347-1 certified IEC/EN61347-2-13 certified ENEC certified CB report EN55015 compliant

Specifications (measured @ Ta= 25°C, 240VAC and rated load)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		198VAC	230VAC	264VAC
Inrush Current				8.0A
Start-up Time				500ms
Input Frequency Range		47Hz		63Hz
No Load Power Consumption				0.5W
Power Factor	full load, 230VAC			0.55
Internal Operating Frequency	full load	60kHz		140kHz
Output Ripple Current (1)				50mAp-p
A1 1				-

Notes:

Note1: Measured at 20MHz Bandwidth using $0.1\mu F$ & $47\mu F$ parallel capacitor

REGULATIONS		
Parameter	Condition	Value
Output Accuracy		±5% max.
Line Regulation		5% max.
Load Regulation		5% max.



RACD12-LP

Series

Specifications (measured @ Ta= 25°C, 240VAC and rated load)

PROTECTION			
Parameter	Condition	Value	
Input Fuse	external fuse is recommended	T1A	
Open Circuit Protection (OCP)		auto recovery after fault condition is removed	
Over Load Protection (OLP)		auto recovery after fault condition is removed	
Over Voltage Protection (OVP)		auto recovery after fault condition is removed	
Over Temperature Protection (OTP)	110°C Tcase	auto recovery after fault condition is removed	
Isolation Voltage	I/P to O/P	3.75kVAC / 1 minute	

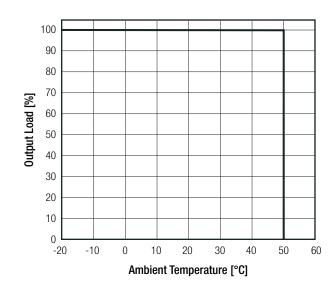
Maximum loading of automatic circuit breakers

*@ 230VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
В	17	28	35	44
С	37	59	74	92

ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range		-20°C to +50°C
Maximum Case Temperature		+80°C
Operating Altitude		2000m
Operating Humidity	non-condensing	5% to 85% RH
IP Rating		IP20
Pollution Degree		PD2
Design Lifetime		30 x 10 ³ hours

Derating Graph





RACD12-LP

Series

Specifications (measured @ Ta= 25°C, 240VAC and rated load)

SAFETY AND CERTIFICATIONS			
Certificate Type (Safety)	Report Number	Standard	
Lamp controlgear Part 1: General and safety requirements (CB Scheme)		IEC61347-1:2015+A1:2017, 3rd Edition	
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (CB Scheme)	374931	IEC61347-2-13:2014+A1:2016, 2nd Edition	
Lamp controlgear Part 1: General and safety requirements (LVD)		EN61347-1:2015	
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (LVD)		EN61347-2-13:2014 + A1:2017	
Lamp controlgear Part 1: General and safety requirements		EN61347-1:2015	
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	374931	EN61347-2-13:2014+A1:2017	
DC or AC supplied electronic control gear for LED modules Performance requirements	374931	IEC62384:2006 1st Edition + A1:2009	
DC or AC supplied electronic control gear for LED modules Performance requirements	374931	EN62384:2006 + A1:2009	
EAC	RU-AT.49.09571	TP TC 004/2011	
RoHS 2		RoHS 2011/65/EU + AM2015/863	
EMC Compliance	Condition	Standard / Criterion	
Limits and methods of measurement of radio disturbance characteristics of electrical	Containen		
lighting and similar equipment		EN55015:2013 + A1:2015	
Equipment for general lighting purposes – EMC immunity requirements	374931	EN61547:2009	
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN62493:2015	
ESD Electrostatic discharge immunity test	±8kV Air Discharge, ±4kV Contact Discharge	EN61000-4-2:2009, Criteria A	
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3:2006 + A2:2010, Criteria A	
Fast Transient and Burst Immunity	±0.5kV (DC Output) ±1kV (AC Input)	EN61000-4-4:2012, Criteria A	
Surge Immunity	±0.5kV (AC Input)	EN61000-4-5:2014 + A1:2017, Criteria A	
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	EN61000-4-6:2014, Criteria A	
Voltage Dips and Interruptions	Voltage Dips >95%	EN61000-4-11:2004 + A1:2017, Criteria B	
Voltage Dips and Interruptions	Voltage Dips 30%	EN61000-4-11:2004 + A1:2017, Criteria B	
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Class C	
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013, Clause 5	

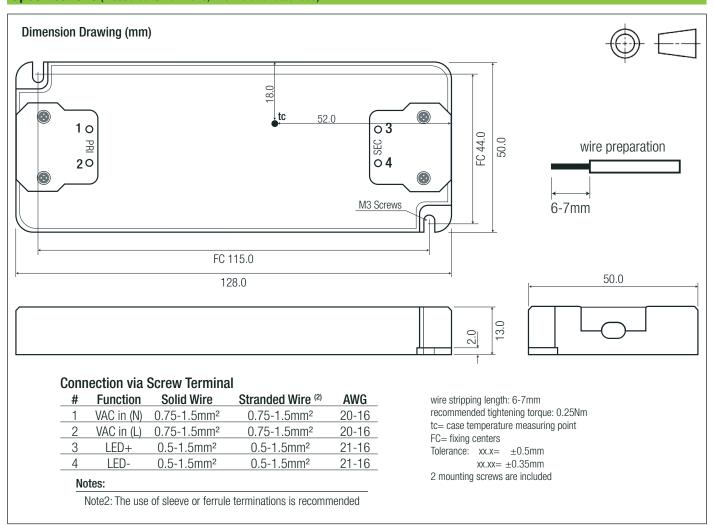
DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	case	plastic (UL94V-2)	
Dimension (LxWxH)		128.0 x 50.0 x 13.0mm	
Weight		70g	

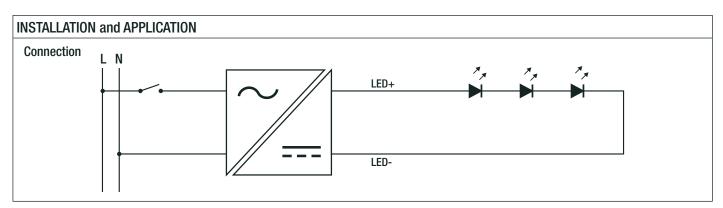


RACD12-LP

Series

Specifications (measured @ Ta= 25°C, 240VAC and rated load)





PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	and heard have	265.0 x 139.0 x 62.0mm	
Packaging Quantity	cardboard box	10pcs	
Storage Temperature Range		-20°C to +70°C	
Storage Humidity	non-condensing	5% - 85% RH	

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant 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.