Features

- 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)
- Suitable for Class I and Class II luminaires
- Low cost

Description

Driver

LED

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.

Selection Guide						
Part Number	Input Voltage Range [VAC]	Input Current [mA]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Output Power max. [W]
RACD20-350-LP	198-264	210	2-59	350	86	21W
RACD20-500-LP	198-264	210	2-40	500	85	20W
RACD20-700-LP	198-264	210	2-31	700	85	22W

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.

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	45kHz		140kHz	
Output Ripple Current (1)				50mAp-p	
Notes:					
Note1: Measured at 20MHz Bandwidth using 0.1µF & 47µF parallel capacitor					

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

RECOM AC/DC Converter

RACD20-LP

20 Watt Constant Current Single Output



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

RECOM AC/DC Converter

RACD20-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 bro	eakers			

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

Circuit Breaker	Circuit Breaker Current				
Тур	10A	16A	20A	25A	
В	11	18	23	29	
С	24	39	49	61	

ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range		-20°C to +45°C
Maximum Case Temperature		+85°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
Output Load [%]	80 70 60 50 40 30 20 10 -20 -10 0 10 0 -20 -10 0 10 20 -20 -10 0 10 20 -20 -10 0 10 20 -20 -10 0 10 20 -20 -10 -10 -10 -10 -10 -10 -10 -1	

RACD20-LP S

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 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
		EN61000-4-11:2004 + A1:2017, Criteria B
Voltage Dips and Interruptions	Voltage Dips 30%	
Voltage Dips and Interruptions Limits of Harmonic Current Emissions	Voltage Dips 30%	EN61000-3-2:2014, Class C

DIMENSION and PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
Material	Case	plastic (UL94V-2)		
Dimension (LxWxH)		128.0 x 50.0 x 13.0mm		
Weight		75g		
	· · · · · ·			

RECOM **AC/DC** Converter

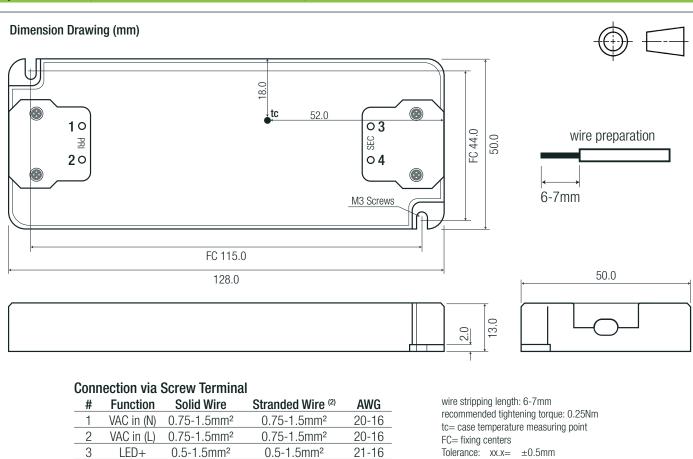
RACD20-LP

 $xx.xx = \pm 0.35mm$

2 mounting screws are included

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

Series



4 Notes: LED-

Note2: The use of sleeve or ferrule terminations is recommended

0.5-1.5mm²

0.5-1.5mm²

INSTALLATION and APPLICATION Connection LN ×, ~, LED+ LED-

21-16

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)		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 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

RECOM:

RACD20-700-LP RACD20-500-LP RACD20-350-LP