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)
- Suitable for Class I and Class II luminaires
- 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.

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)

Note1:

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:		,		

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.	



RACD20-LP

20 Watt Constant Current Single Output















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



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		

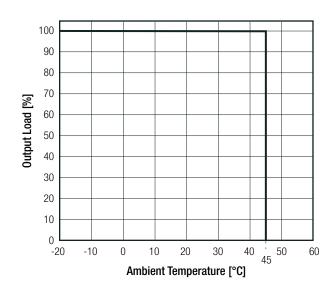
Maximum loading of automatic circuit breakers

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

Circuit Breaker	Circuit Breaker Current		t	
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	

Derating Graph





RACD20-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)	305985	IEC61347-1:2007 2nd Edition + A2:2012		
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (CB Scheme)	305985	IEC61347-2-13:2014 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	305985	EN61347-1:2008 + A2:2013		
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	305985	EN61347-2-13:2014		
DC or AC supplied electronic control gear for LED modules Performance requirements	305985-1	IEC62384:2006 1st Edition + A1:2009		
DC or AC supplied electronic control gear for LED modules Performance requirements	305985-1	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	Oonation			
lighting and similar equipment		EN55015:2013 + A1:2015		
Equipment for general lighting purposes – EMC immunity requirements	305985	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, 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, Criteria B		
Voltage Dips and Interruptions	Voltage Dips 30%	EN61000-4-11:2004, 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		75g	

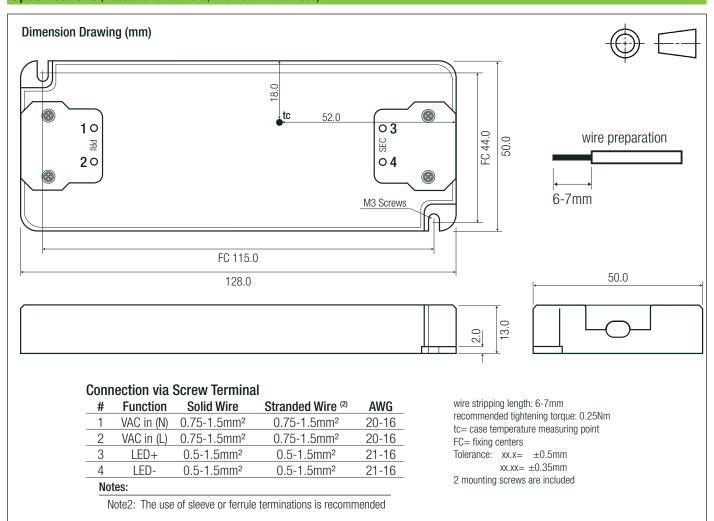
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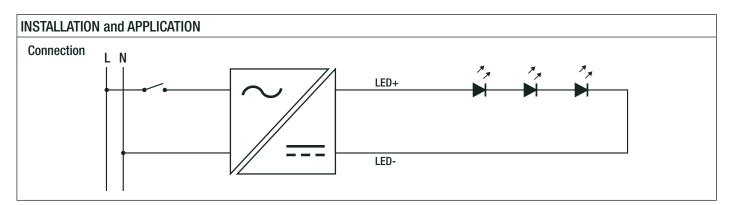


RACD20-LP

Series

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





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	aardhaard bay	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.