Features

LED Driver

- 4W AC-DC class II LED power supply
- 350mA to 700mA constant current outputs
- Fully protected (OLP, SCP, OCP, OTP)
- Low standby power, ErP conform
- IP65 (suitable for dry and damp locations)
- Low cost
- CE, CB, ENEC, CSA and UL8750 certified
- Wired connections for independent or built-in use

Description

These constant current LED drivers have been designed for cost-sensitive applications. The SELV outputs are suitable for 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]
RACD04-350	90-264	100	3-12	350	77	4.2
RACD04-500	90-264	100	3-8	500	75	4
RACD04-700	90-264	100	3-6	700	72	4.2

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.

RECOM AC/DC Converter

RACD04

4 Watt Constant Current Single Output



















Model Numbering

RACD04- ____ Output Current

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

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC	230VAC	264VAC
Inrush Current				10A
Start-up Time				500ms
Input Frequency Range		47Hz		63Hz
No Load Power Consumption				0.5W
Power Factor	full load, 230VAC			0.40
Internal Operating Frequency	full load		64kHz	
Output Ripple Current (1)	350mA			80mAp-p
Output nippie outfellt "	500mA; 700mA			90mAp-p
Notes:				

Note1: Measured at 20MHz BW using 0.1µF & 47µF parallel capacitor.

UL8750 Certified CSA C22.2 No. 250.13 Certified IEC/EN61347-1 Certified IEC/EN61347-2-13 Certified IEC62384 Certified EN55015 Compliant ENEC CB Report

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RACD04

Series

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

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

PROTECTION				
Parameter	Condition	Value		
Input Overcurrent Protection	internal	0.22Ω fusible resistor		
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 (2)	I/P to O/P	3.75kVAC / 1 minute		
Isolation Resistance		100ΜΩ		

Notes:

Note2: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Maximum loading of automatic circuit breakers

@ 115VAC, 10hm, 90° phase angle and max. load

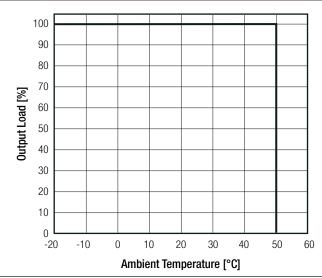
Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
С	54	118	148	184

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

Circuit Breaker	Circuit Breaker Current				
Тур	10A	16A	20A	25A	
В	17	28	35	44	
С	27	59	74	92	

ENVIRONMENTAL				
Parameter	Condition	Value		
Operating Temperature Range		-20°C to +50°C		
Maximum Case Temperature		+79°C		
Operating Altitude		2000m		
Operating Humidity		5% to 85% RH, non-condensing		
IP Rating		IP65		
Pollution Degree		PD2		
Design Lifetime		30 x 10 ³ hours		

Derating Graph





RACD04

Series

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

SAFETY AND CERTIFICATIONS				
Certificate Type	Report Number	Standard		
ETL Standard for LED Equipment for use in Lighting Products	1004001000711001	UL8750, 2nd Edition, 2015		
LED Equipment for Lighting Applications	- 160428123GZU-001	CSA C22.2 No. 250.13, 2014-07-01		
Lamp Controlgear: General Requirements for Safety (LVD)		EN61347-1:2015		
Lamp Controlgear: Particular Requirements for d.c. or a.c. (LVD)		EN61347-2-13:2014 +A1 2017		
Lamp Controlgear: General Requirements for Safety (CB Scheme)	200010	IEC61347-1:2015, 3rd Edition + A1:2017		
Lamp Controlgear: Particular Requirements for d.c. or a.c. (CB Scheme)	366910	IEC61347-2-13:2014 2nd Edition +A1:2016		
Lamp Controlgear: General Requirements for Safety		AS/NZS61347.1:2016		
Lamp Controlgear: Particular Requirements for d.c. or a.c.		AS/NZS61347.2.13:2013		
Lamp Controlgear General Requirements for Safety (ENEC)		EN61347-1:2015		
Lamp Controlgear Particular Requirements for d.c. or a.c. (ENEC)		EN61347-2-13:2014 + A1:2017		
D.C. or A.C. Controlgears for LED Performance Requirements (ENEC)	366910-1	EN62384:2006 + A1:2009		
D.C. or A.C. Controlgears for LED Performance Requirements		IEC62384:2006, 1st Edition +A1:2009		
EAC	RU-AT.49.09571	TP TC 004/2011		
RoHS2	LCS1606201548R	RoHS-2011/65/EU + AM-2015/863		
EMI Compliance		Standard / Criterion		
Equipment for general Lighting Purpose EMC Immunity Requirements		EN61547: 2009		
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	366910	EN55015:2013 + A1:2015		
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN62493: 2015		
ESD Electrostatic discharge immunity test	Air: ±8, 4, 2kV Contact: ±4, 2kV	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	AC Port: ±1kV DC Port: ±0.5kV	EN61000-4-4: 2012, Criteria A		
Surge Immunity	AC Port: ±0.5kV	EN61000-4-5: 2014, Criteria A		
Immunity to conducted disturbances, induced by radio-frequency fields	3V	EN61000-4-6: 2014, Criteria A		
Voltage Dips and Interruptions	>95% reduction, 10ms	EN61000-4-11, 2004, Criteria B		
	30% reduction, 200ms	EN61000-4-11, 2004, Criteria B		
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3: 2013 Clause 5		

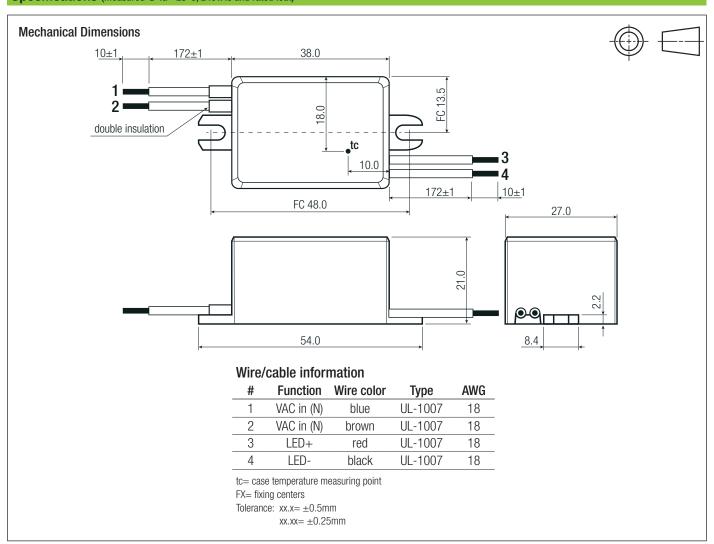
DIMENSION and PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
Material	Case	Plastic (UL94 V-2)		
Ividlerial	Potting	Silicone (UL94 V-0)		
Package Dimension (LxWxH)		38.0 x 27.0 x 21.0mm		
Package Weight		40g		

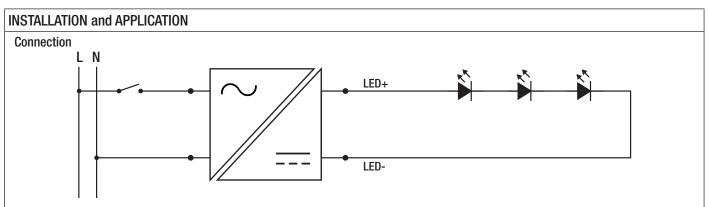


RACD04

Series

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





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	Cardboard Box	290.0 x 86.0 x 76.0mm		
Packaging Quantity	Cardboard Box	10pcs		
Storage Temperature Range		-20°C to +70°C		
Storage Humidity		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.