Features

- 4W AC-DC class II LED power supply
- 350mA to 700mA constant current outputs

IP65 (suitable for dry and damp locations)

- Fully protected (OLP, SCP, OCP, OTP)
- Low standby power, ErP conform

LED Driver

- 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 Gui	de					
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.

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 Dipple Ourrept (1)	350mA			80mAp-p
Output Ripple Current (1)	500mA; 700mA			90mAp-p
Notes:				
Note1: Mea	asured at 20MHz BW using	0.1µF & 47µF par	allel capacitor.	

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

Condition	Value
internal	0.22Ω fusible resistor
	auto recovery after fault condition is removed
	••••••

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RACD04

4 Watt Constant Current Single Output





Intertek

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

RECOM AC/DC Converter

RACD04 Series

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

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
Isolation Resistance		100MΩ

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			t
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, Ambient
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 Output Current 0	100 80 60 40 20 -20 -10 0 10 20 30 40 50 60 Ambient Temperature [°C]	

SAFETY AND CERTIFICATIONS			
Certificate Type	Report Number	Standard	
ETL Standard for LED Equipment for use in Lighting Products		UL8750, 2nd Edition, 2015	
LED Equipment for Lighting Applications	100420123020-001	CSA C22.2 No. 250.13, 2014-07-01	
Lamp Controlgear: General Requirments for Safety		IEC61347-1, 3rd Edition, 2015 EN61347-1, 2015	
Lamp Controlgear: Particular Requirements for d.c. or a.c.		IEC61347-2-13:2014 2nd Edition +A1:2016 EN61347-2-13:2014 +A1:2017	

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RECOM AC/DC Converter

RACD04 Series

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

Certificate Type	Report Number	Standard
Lamp Controlgear: General Requirments for Safety (CB Scheme)	007040 - 007050	IEC61347-1:2007, 2nd Edition +A12:2012
Lamp Controlgear Particular Requirements for d.c. or a.c. (CB Scheme)	307649 + 307650	IEC61347-2-13, 2nd Edition, 2014
Lamp Controlgear General Requirments for Safety (ENEC)		IEC61347-1:2008 + A2:2013
Lamp Controlgear Particular Requirements for d.c. or a.c. (ENEC)		EN61347-2-13:2014
D.C. or A.C. Controlgears for LED Performance Requirements (ENEC)	307649-1 + 307650-1	IEC62384:2006, 1st Edition +A1:2009 EN62384:2006 + A1:2009
EAC	RU-AT.49.09571	TP TC 004/2011
RoHS 2.1	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	307650	EN55015:2013 + A1:2015
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 B
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 B
Surge Immunity	±0.5kV (AC Input)	EN61000-4-5: 2014, Criteria C
Immunity to conducted disturbances, induced by radio-frequency fields	3V	EN61000-4-6: 2014, Criteria A
Voltage Dips and Interuptions	>95% reduction, 10ms	EN61000-4-11, 2004, Criteria B
	30% reduction, 200ms	EN61000-4-11, 2004, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2:2014 Class C
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3: 2013 Clause 5

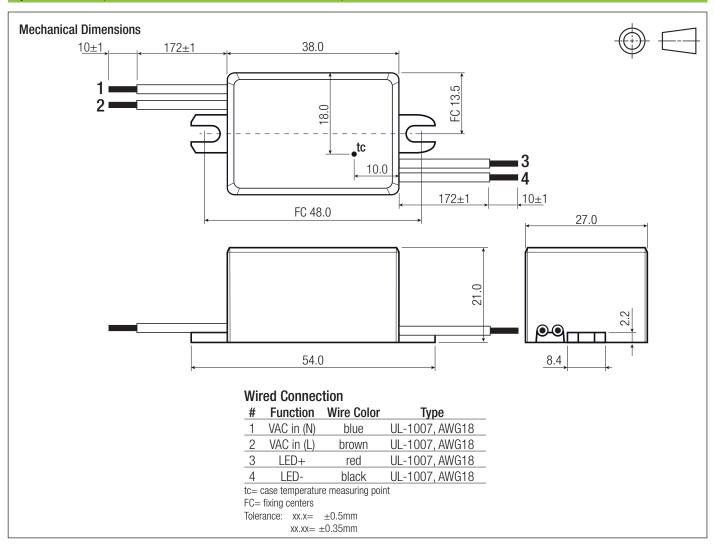
DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Metazial	Case	Plastic (UL94 V-2)	
Material	Potting	Silicone (UL94 V-0)	
Package Dimension (LxWxH)		38.0 x 27.0 x 21.0mm	
Package Weight		40g	

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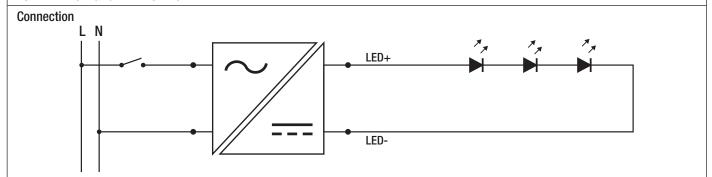


Specifications (measured @ ta= 25°C, 240VAC and rated load)

RACD04 Series



INSTALLATION and APPLICATION



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardbaard Day	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 are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer 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.