Features

LED Driver

- 4W AC-DC class II LED power supply
- 12V and 24V constant voltage output
- 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

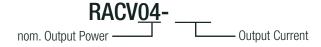
Description

These constant voltage 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 [VDC]	Output Current Range [mA]	Efficiency typ. [%]	Output Power max. [W]
RACV04-12	90-264	100	12	0-330	75	4
RACV04-24	90-264	100	24	0-170	75	4

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.

Model Numbering



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

BASIC CHARACTERISTICS					
Parameter	Condition	Min.	Тур.	Max.	
Input Voltage Range		90VAC	230VAC	264VAC	
Inrush Current				11A	
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 Voltage (1)	12VDC			120mVp-p	
Output Ripple voltage **	24VDC			240mVp-p	
Notes:					



RACV04

4 Watt Constant **Voltage 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



RACV04

Series

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

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

PROTECTION					
Parameter	Condition	Value			
Input Fuse	external fuse is recommended	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

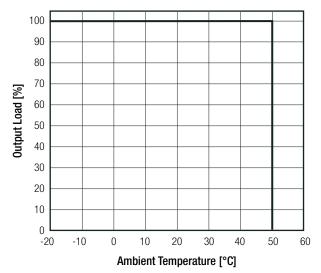
Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
С	54	118	148	184

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

Circuit Breaker	(Circuit Brea	ıker Curren	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 +79°C Maximum Case Temperature 2000m Operating Altitude Operating Humidity 5% to 85% RH, non condensing IP Rating IP65 Pollution Degree PD2 Design Lifetime 30 x 10³ hours

Derating Graph





RACV04

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	1004001000711 001	UL8750, 2nd Edition, 2015
LED Equipment for Lighting Applications	160428123GZU-001	CSA C22.2 No. 250.13, 2014-07-01
Lamp Controlgear: General Requirments 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 Requirments for Safety (CB Scheme)	000011	IEC61347-1:2015, 3rd Edition + A1:2017
Lamp Controlgear: Particular Requirements for d.c. or a.c. (CB Scheme)	366911	IEC61347-2-13:2014 2nd Edition +A1:2016
Lamp Controlgear: General Requirments for Safety		AS/NZS61347.1:2016
Lamp Controlgear: Particular Requirements for d.c. or a.c.		AS/NZS61347.2.13:2013
Lamp Controlgear General Requirments for Safety (ENEC)		IEC61347-1:2015
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)	366911-1	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
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		ENEE015,0010 . A1,0015
lighting and similar equipment	366910	EN55015:2013 + A1:2015
Equipment for general lighting purposes - EMC immunity requirements		EN61547:2009
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN62493: 2015
ESD Electrostatic discharge immunity test	±8, 4, 2kV Air Discharge, ±4, 2kV 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	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 B
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3: 2013 Clause 5

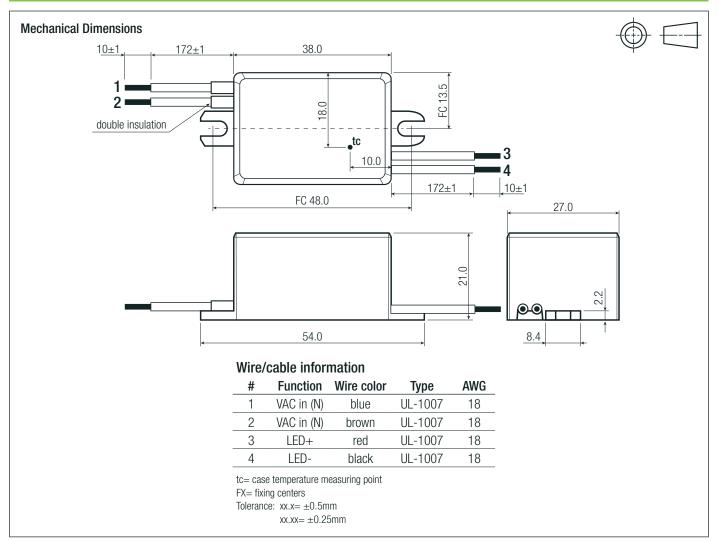
DIMENSION and PHYSICAL CHARACTERISTICS					
Parameter	Туре	Value			
Material	Case	Plastic (UL94 V-2)			
Material	Potting	Silicone (UL94 V-0)			
Package Dimension (LxWxH)		38.0 x 27.0 x 21.0mm			
Package Weight		40g			
continued on next page					

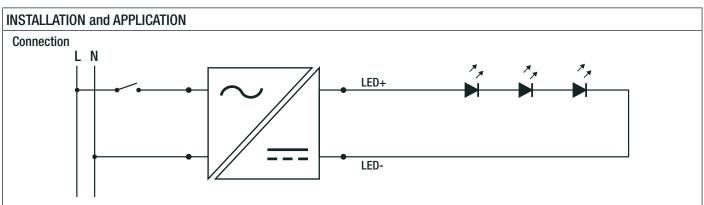


RACV04

Series

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





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	Ostalla sand Davi	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.