Features

LED Driver

- Low profile case (13mm height max.)
- 12V and 24V constant voltage outputs
- Terminal block input/output with cable clamps
- Fully protected (OLP, SCP, OCP, OTP)
- Low standby power, ErP conform
- Low cost

Description

These low profile constant voltage 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 [VDC]	Output Current Range [mA]	Efficiency typ. [%]	Output Power max. [W]
RACV20-12-LP	198-264	210	12	0-1670	82	20W
RACV20-24-LP	198-264	210	24	0-830	84	20W

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

RACV20-LP

20 Watt Constant **Voltage Single Output**

















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

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				50ms
Input Frequency Range		47Hz		63Hz
No Load Power Consumption				0.5W
Power Factor	full load, 230VAC			0.55
Internal Operating Frequency	full load	35kHz		140kHz
Output Dipple Valtage (1)	12Vout			700mVp-p
Output Ripple Voltage (1)	24Vout			500mVp-p
Notes:				

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

REGULATIONS			
Parameter	Condition	Value	
Output Accuracy		±5% max.	
Line Regulation		3% max.	
Load Regulation		3% max.	



RACV20-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		

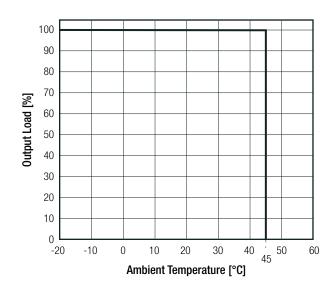
Maximum loading of automatic circuit breakers

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

Circuit Breaker	Circuit Breaker Current			
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





RACV20-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)		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)	371338	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		EN61347-1:2008 + A2:2013
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	371338	EN61347-2-13:2014
DC or AC supplied electronic control gear for LED modules Performance requirements	371338	IEC62384:2006 1st Edition + A1:2009
DC or AC supplied electronic control gear for LED modules Performance requirements	371330	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		EN55015:2013 + A1:2015
lighting and similar equipment	071000	EN35013:2013 + A1:2015
Equipment for general lighting purposes – EMC immunity requirements	371338	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
Voltage Dips and Interruptions	Voltage Dips 30%	EN61000-4-11:2004 + A1:2017, Criteria B
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Class C
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013, Clause 5

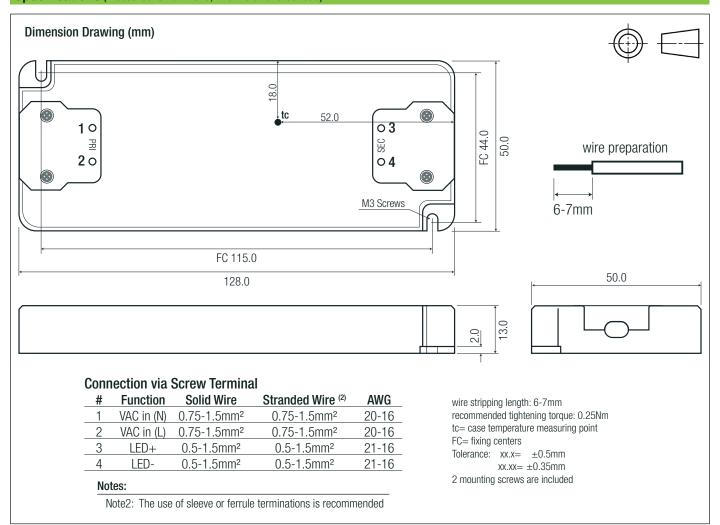
DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	case	plastic (UL94V-2)	
Dimension (LxWxH)		128.0 x 50.0 x 13.0mm	
Weight		75g	

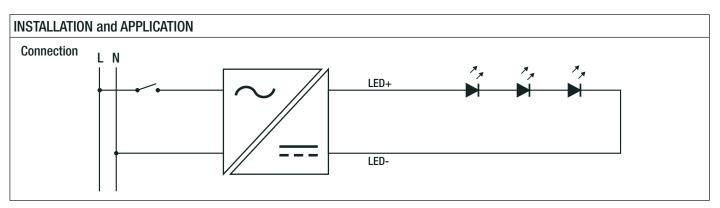


RACV20-LP

Series

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





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	gardboard Day	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.

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