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



RACV20-LP

20 Watt
Constant
Voltage Single
Output

Selection Guide						
Part Number	nom. Input Voltage [VAC]	Input Current [mA]	Output Voltage [VDC]	Output Current Range [mA]	Efficiency typ. [%]	Output Power max. [W]
RACV20-12-LP	230	210	12	0-1670	82	20W
RACV20-24-LP	230	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.



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 Ripple Voltage (1)	12Vout			700mVp-p
	24Vout			500mVp-p

Notes:

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



IEC/EN61347-1 Certified IEC/EN61347-2-13 Certified ENEC Certified CB Report EN55015 Compliant

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



RACV20-LP

Series

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

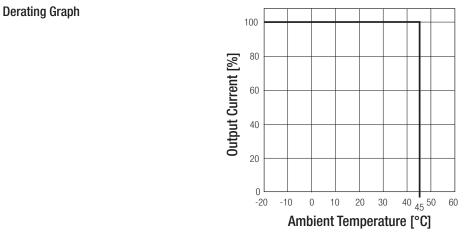
PROTECTION				
Parameter	Condition	Value		
Input Fuse	external fuse is recommended	T1A		
Open Circuit Protection (OCP)		auto recovery after fault condition is removed		
Over Load Protection (OLP)		auto recovery after fault condition is removed		
Over Voltage Protection (OVP)		auto recovery after fault 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, Ambient	
Maximum Case Temperature		+85°C	
Operating Altitude		2000m	
Operating Humidity		5% to 85% RH, non condensing	
IP Rating		IP20	
Pollution Degree		PD2	
Design Lifetime		30 x 10 ³ hours	
Doroting Croph		7	



SAFETY AND CERTIFICATIONS			
Certificate Type	Report Number	Standard	
Lamp Controlgear General Requirments for Safety	305987	IEC61347-1, 2nd Edition, 2012 EN61347-1, 2nd Edition 2013	
Lamp Controlgear Particular Requirements	305985	IEC61347-2-13, 2nd Edition, 2014 EN61347-2-13, 2014	
D.C. or A.C. Controlgears for LED Performance Requirements	305984-1 + 305984-1	IEC/EN62384, 1st Edition, 2009	
RoHS 2.1	LCS1606201548R	RoHS-2011/65/EU + AM-2015/863	
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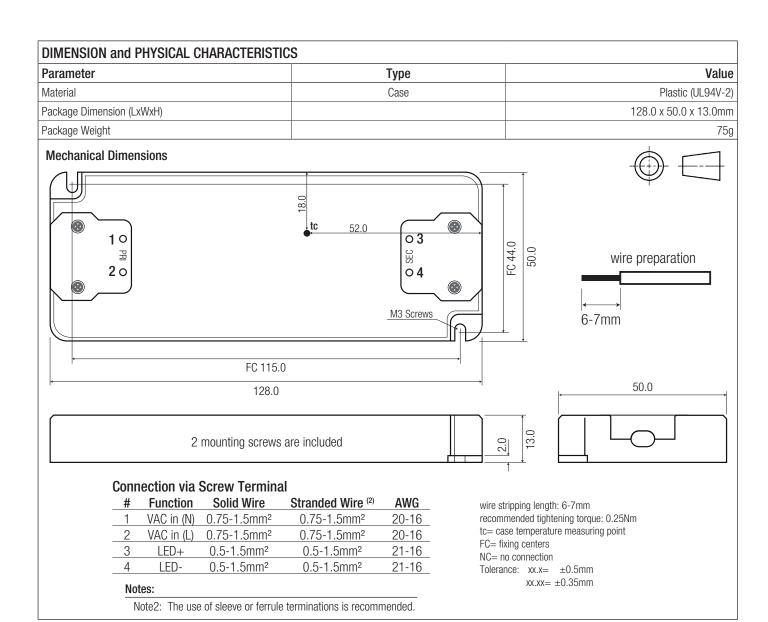


RACV20-LP

Series

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

EMI Compliance		Standard / Criterion
Equipment for general Lighting Purpose - EMC Immunity Requirements	205004	EN61547, 2009
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	305984 + - 305985	EN55015, 2015
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN61493, 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, 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 30% reduction	EN61000-4-11, 2014, Criteria B EN61000-4-11, 2014, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2, Class C, 2014
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3, 2013



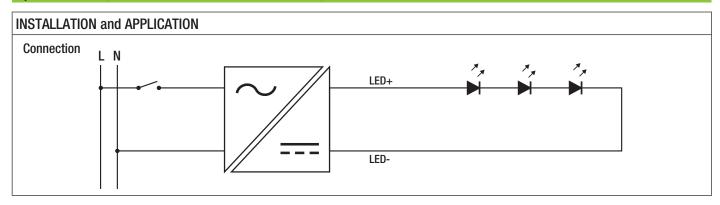
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RACV20-LP

Series

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



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardboard Box	265.0 x 139.0 x 62.0mm	
Packaging Quantity	Cardboard Box	10pcs	
Storage Temperature Range		-20°C to +70°C	
Storage Humidity		5% - 85% RH	