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.



RACV12-LP

12 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]
RACV12-12-LP	230	130	12	0-1000	78	12W
RACV12-24-LP	230	130	24	0-500	80	12W

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				8A
Start-up Time				50ms
Input Frequency Range		47Hz		63Hz
No Load Power Consumption				0.4W
Power Factor	full load, 230VAC			0.55
Internal Operating Frequency	full load	35kHz		140kHz
Output Ripple Voltage (1)	12Vout			600mVp-p
Output Hippie voltage V	24Vout			500mVp-p
Noton				

Notes:

Measured at 20MHz BW using 0.1µF & 47µF 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.		



RACV12-LP

Series

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

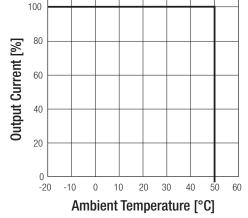
PROTECTION			
Parameter	Condition	Value	
Input Fuse	external fuse is recommended	T1A	
Open Circuit Protection (OCP)		auto recovery after fault condition is removed	
Over Load Protection (OLP)		auto recovery after fault condition is removed	
Over Voltage Protection (OVP)		auto recovery after fault condition 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 Brea	cuit Breaker Curren	
Тур	10A	16A	20A	25A
В	17	28	35	44
С	37	59	74	92

ENVIRONMENTAL Parameter Condition Value Operating Temperature Range -20°C to +50°C, Ambient Maximum Case Temperature +85°C Operating Altitude 2000m Operating Humidity 5% to 85% RH, non condensing IP Rating Pollution Degree Design Lifetime 30 x 10³ hours **Derating Graph** 100 80



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	
continued on next page			

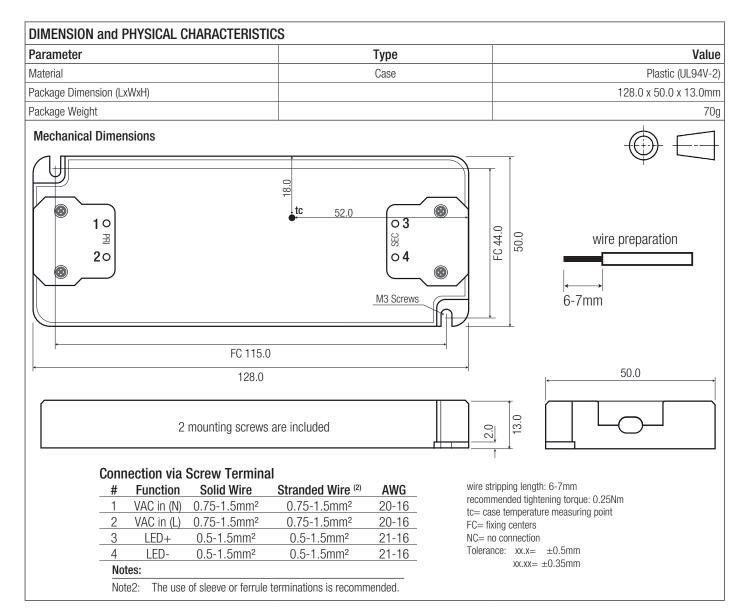


RACV12-LP

Series

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

EMI Compliance		Standard / Criterion
Equipment for general Lighting Purpose - EMC Immunity Requirements	005004	EN61547, 2009
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	305984 +	EN55015, 2015
Assessment of lighting equipment related to human exposure to electromagnetic fields	305985	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

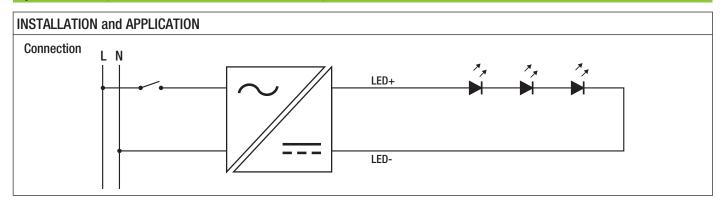




RACV12-LP

Series

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



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Candles and Day	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	