Features

- Universal AC input range: 90-264VAC
- Suitable for DALI installation

• EN61347-1 certified

DALI

Cooling by free air convection

Power Supply

- Over current and short circuit protected

Description

The RELV4-16 is designed to power a DALI digital lighting control bus. The output is current limited to 200mA, sufficient to power a complete DALI zone with up to 64 addressable DALI devices. The universal input voltage range from 90V to 264VAC enables the RELV4-16 to be used anywhere in the world. Due to its compact design with mounting tabs, it can be easily and conveniently integrated into any DALI network. An indicator LED shows Power OK and DALI bus traffic to aid installation and commissioning. The RELV4-16 comes with a 5 year warranty.

Selection Guide						
Part Number	Input Voltage Range [VAC]	Input Current (@ 115VAC) [mA]	Output Voltage [VDC]	Output Current [mA]	Output Power [W]	Efficiency typ. [%]
RELV4-16	90-264	110	16	200	3.2	68

Specifications (measured @ Ta= 25°C and 230VAC)

Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC	230VAC	264VAC
Output Voltage Range	full load		16VDC	
DC Voltage Range		13.6VDC		18.4VDC
Inrush Current	115VAC 230VAC			21A 42A
DC Output Current Range	13.6VDC 18.4VDC		240mA 180mA	
Start-up Time	115VAC 230VAC			1s 0.5s
Rise and Fall Times		10µs		100µs
Input Frequency Range		47Hz		63Hz
Ripple and Noise (1)				150mVp-p
Notes: Note1: Ripple and Noise is mer 0.1µF & 47µF parallel of	asured @20MHz BW by usir capacitor	ng a 12" twisted pa	ir-wire termina	ted with

Parameter	Condition	Value	
Output Accuracy (2)		±15% ty	
Current Tolerance		+20% / -10% ty	
Current Tolerance Notes:		+20% /	

RECOM **AC/DC** Converter

RELV4-16









EN61347-1 certified EN61347-2-11 certified EN55015 certified EN61547 certified

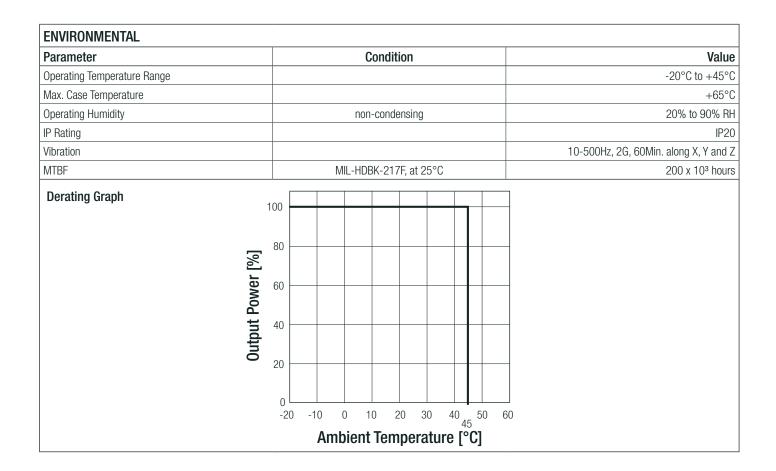
RECOM **AC/DC** Converter

PROTECTION Parameter

Specifications (measured @ Ta= 25°C and 230VAC)

Condition Value Short Circuit Protection (SCP) with terminal switch (80°C typ.) Limiting Current Mode

	(3 , 7	3
Over Current Protection (OCP)	240mA max.	Limiting Current Mode
Isolation Voltage		3.75kVAC / 1 Minute
Isolation Resistance	500VDC at 25°C	100ΜΩ
Isolation Grade		Double Isolated for SELV Output



SAFETY AND CERTIFICATIONS			
File Number	Standard		
	EN61347-1:2015		
	IEC61347-2-11:2001, 1st Edition EN61347-2-11:2001		
	RoHS 2011/65/EU + AM2015/863		
	File Number		

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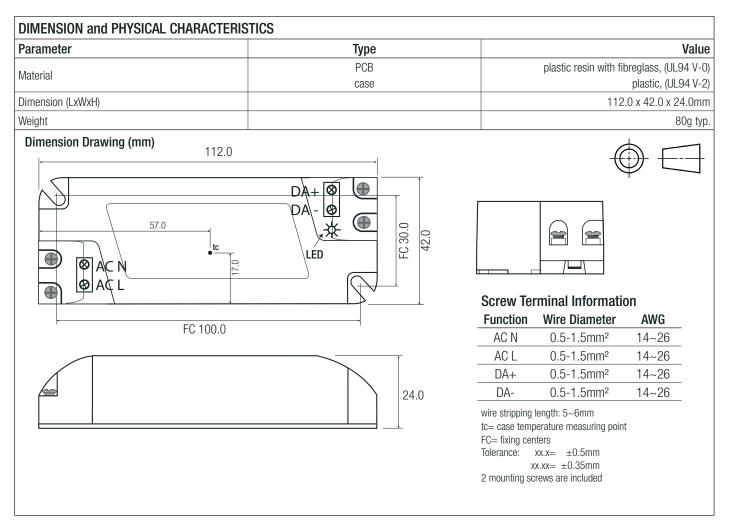
RELV4-16 Series

RECOM AC/DC Converter

RELV4-16 Series

Specifications (measured @ Ta= 25°C and 230VAC)

EMC Compliance	Conditions	Standard / Criterion
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment		EN55015:2013 + A1:2015
Limitations on the amount of electromagnetic interference allowed from digital and electronic devices		FCC 47 CFR Part 15
Equipment for general lighting purposes – EMC immunity requirements		EN61547:2009
ESD Electrostatic discharge immunity test	Air ± 2 , ± 4 , ± 8 kV Contact ± 2 , ± 4 kV	IEC61000-4-2:2008, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m (80-1000MHz)	IEC61000-4-3:2006, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±0.5kV	IEC61000-4-4:2012, Criteria A
Surge Immunity	AC Power Port: L-N ±0.5kV, ±1kV	IEC61000-4-5:2005, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port: 3V	IEC61000-4-6:2008, Criteria A
Power Magnetic Field Immunity	50, 60Hz, 3A/m	IEC61000-4-8:2009, Criteria A
Voltage Dips and Interruptions	Voltage Dips 30%	IEC61000-4-11:2004, Criteria B
Voltage Dips and Interruptions	Voltage Interruptions >95%	IEC61000-4-11:2004, Criteria B
Limits of Harmonic Current Emissions		EN61000-3-2:2014
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013

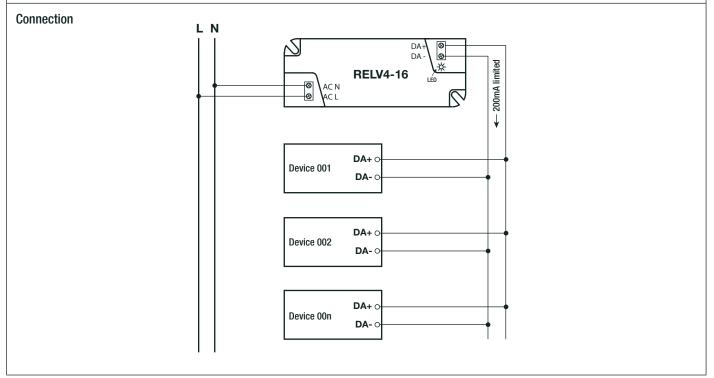


RECOM AC/DC Converter

RELV4-16 Series

Specifications (measured @ Ta= 25°C and 230VAC)

INSTALLATION and APPLICATION



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	cardboard box	256.0 x 124.0 x 84.0mm	
Packaging Quantity		10 pcs	
Storage Temperature Range		-40°C to +80°C	
Storage Humidity	non-condensing	10% - 90% 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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