Features

Universal AC Input Range: 90-264VAC

Suitable for DALI Installation

IEC-62386 Compliant

Cooling by free air convection

Power Supply • Over Current and Short Circuit Protected

RECO AC/DC Converter

RELV4-16

DALI Bus **Power Supply**

Description

DALI

The RELV4-16 is designed to power a DALI digital lighting control bus. This low cost AC/DC power supply is fully compliant with the IEC62386 DALI standard, so can be used with any DALI-certified product or controller. 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 at TA= 25°C and 230VAC)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC		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	compliant with IEC62386-101 1st Edition	10μs		<100µs
Input Frequency Range		50Hz		60Hz
Efficiency			see	Selection Guide
Ripple and Noise (1)				150mVp-p

Notes:

Note1:

Note2:

Ripple and Noise is measured @20MHz BW by using a 12" twisted pair-wire terminated with 0.1µF & 47µF parallel capacitor.









IEC-62386 Compliant EN-55015 Certified EN-61347-1 Certified EN-61347-2-11 Certified

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

Voltage Tolerance includes line regulation, load regulation and set-up tolerance.

Refer to Applications Notes

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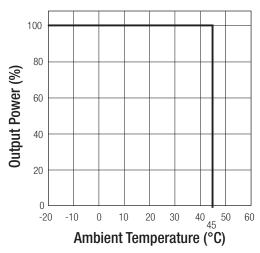
RELV4-16

Series

Specifications (measured at TA= 25°C and 230VAC)

PROTECTION			
Parameter	Condition	Value	
Short Circuit Protection (SCP)	with terminal switch (80°C typ.)	Limiting Current Mode	
Output Over Current Protection (OCP)	240mA max.	Limiting Current Mode	
Isolation Voltage		3.75kVAC / 1 Minute	
Isolation Resistance	500VDC at 25°C	100ΜΩ	
Isolation Grade	compliant with IEC62386-101	Double Isolated for SELV Output	

Parameter	Condition	Value
Operating Temperature Range		-20°C to +45°C
Maximum Case Temperature		+65°C
Storage Temperature Range		-40° to +80°C
Storage Humidity		10% - 90% RF
Operating Humidity	non condensing	20% to 90% RF
Vibration		10-500Hz, 2G, 60Min. along X, Y and Z
MTBF	MIL-HDBK-217F, at 25°C	200 x 10 ³ hours
Derating Graph		1



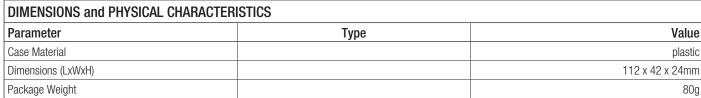
SAFETY AND CERTIFICATIONS			
Certificate Type	Report / File Number	Standard	
CE General Safety		EN-61347-1	
CE Safety of AC supplied Controlgear		EN-61347-2-11	
Certificate Type (Environmental)	Conditions	Standard / Criterion	
Electric Lighting, EMC Emissions		EN-55015 FCC, Part 15	
Electric Lighting, EMC Immunity		EN-61000-4-2, 3, 4, 5 , 6, 8, 11	
Limits for Harmonic Emissions EMC Compatability: Flicker and Voltage Variations		EN-61000-3-2, Class C EN-61000-3-3	
IP Rating		IP20	

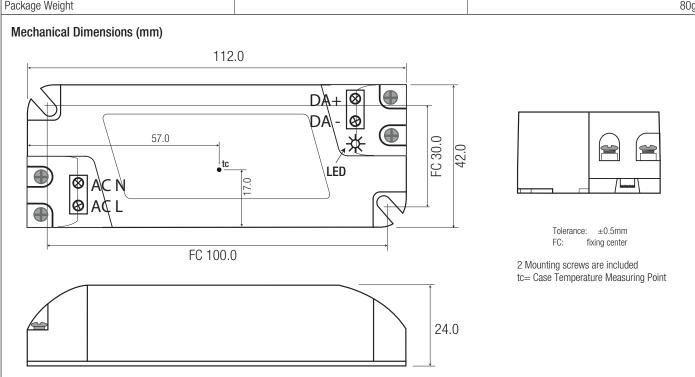


RELV4-16

Series

Specifications (measured at TA= 25°C, nominal input voltage, full load and after warm-up)





PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardboard Box	256 x 124 x 84mm	
Packaging Quantity		10pcs	

The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer 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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