Features

- Universal AC Input Range: 90-264VAC
- Suitable for DALI Installation

DAL

Cooling by free air convection

Power Supply • Over Current and Short Circuit Protected

IEC-62386 Compliant

Description

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)

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 S	Selection Guid
Ripple and Noise (1)				150mVp-p



0.1µF & 47µF parallel capacitor.

REGULATIONS				
Parameter	Condition	Value		
Output Voltage Accuracy (2)		± 15% typ.		
Current Tolerance		+20% / -10% typ.		
Notes: Note2: Voltage Tolerance	includes line regulation, load regula	tion and set-up tolerance.		

RECON AC/DC Converter

RELV4-16







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

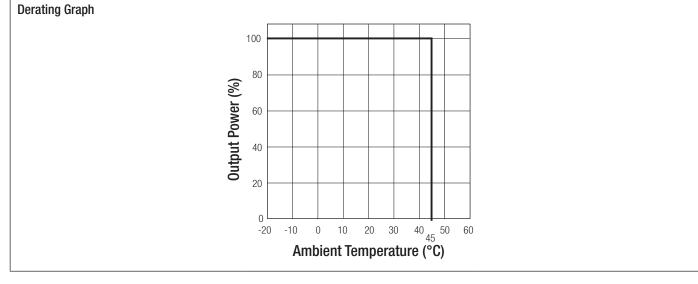
RECOM AC/DC Converter

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

RELV4-16 Series

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		

ENVIRONMENTAL			
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% RH	
Operating Humidity	non condensing	20% to 90% RH	
Vibration		10-500Hz, 2G, 60Min. along X, Y and Z	
MTBF	MIL-HDBK-217F, at 25°C	200 x 10 ³ hours	

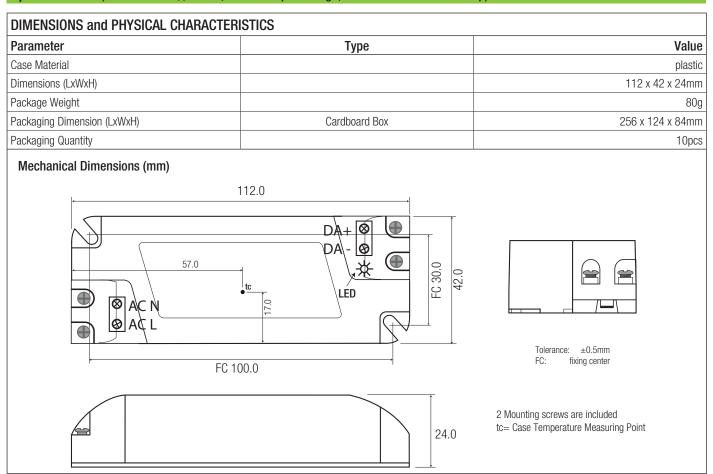


SAFETY AND CERTIFICATIONS			
Certificate Type	Report / File Number	Standard	
CE General Safety		EN-61347-1	
CE Safety of AC supplied Controlgear		EN-61347-2-11	
Certificate Type (Environmental)	Conditions	Standard / Criterion	
Electric Lighting, EMC Emissions		EN-55015 FCC, Part 15	
Electric Lighting, 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	

RECOM AC/DC Converter

RELV4-16 Series

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



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.