# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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### **Features**

- Low Profile Case (13mm height max.)
- 350mA to 700mA Constant Current Outputs
- Terminal Block Input/Output with Cable Clamps
- Fully Protected (OLP, SCP, OCP, OTP)
- Iow Standby Power, ErP conform
- low cost

### Description

**Driver** 

LED

These low profile constant current 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.

# RACD12-LP

RECON

**AC/DC** Converter

12 Watt Constant Current Single Output

Selection Guide						
Part Number	nom. Input Voltage [VAC]	Input Current [mA]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Output Power max. [W]
RACD12-350-LP	230	130	2-37	350	86	13W
RACD12-500-LP	230	130	2-24	500	81	12W
RACD12-700-LP	230	130	2-19	700	85	13W

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				500ms	
Input Frequency Range		47Hz		63Hz	
No Load Power Consumption				0.5W	
Power Factor	full load, 230VAC			0.55	
Internal Operating Frequency	full load	60kHz		140kHz	
Output Ripple Current <sup>(1)</sup>				50mAp-p	
Notes: Note1: Measured at 20MHz BW using 0.1µF & 47µF parallel capacitor.					

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



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



# RECOM AC/DC Converter

# RACD12-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
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Circuit Breaker	Circuit Breaker Current			
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		+80°C		
Operating Altitude		2000m		
Operating Humidity		5% to 85% RH, non condensing		
IP Rating		IP20		
Pollution Degree		PD2		
Design Lifetime		30 x 10 <sup>3</sup> hours		



SAFETY AND CERTIFICATIONS					
Report Number	Standard				
305987	IEC61347-1, 2nd Edition, 2012 EN61347-1, 2nd Edition 2013				
305985	IEC61347-2-13, 2nd Edition, 2014 EN61347-2-13, 2014				
305984-1 + 305984-1	IEC/EN62384, 1st Edition, 2009				
LCS1606201548R	RoHS-2011/65/EU + AM-2015/863				
	Report Number   305987   +   305985   305984-1   \$305984-1   LCS1606201548R				

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# RECOM AC/DC Converter

# RACD12-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	- 202962	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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RACD12-LP Series

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





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

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.