Features

LED Driver

- Low Profile Case (11mm height max.)
- 350mA to 700mA Constant Current 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 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 ounted 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.



RACD06-LP

6 Watt Constant Current Single Output

Selection Guid	е					
Part Number	nom. Input Voltage [VAC]	Input Current [mA]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Output Power max. [W]
RACD06-350-LP	230	80	2-18	350	77	6
RACD06-500-LP	230	80	2-12	500	75	6
RACD06-700-LP	230	80	2-9	700	74	6

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				11.0A			
Start-up Time				100ms			
Input Frequency Range		47Hz		63Hz			
No Load Power Consumption				0.4W			
Power Factor	full load, 230VAC			0.55			
Internal Operating Frequency	full load	60kHz		140kHz			
Output Ripple Current (1)				50mAp-p			

Notes:

Note1: Measured at 20MHz Bandwidth 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 Current Accuracy		±5% max.			
Line Regulation		5% max.			
Load Regulation		5% max.			

www.recom-power.com REV.: 0/2016 L-1



RACD06-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 Breaker Current						
Тур	10A	16A	20A	25A			
В	22	35	44	55			
С	46	74	92	115			

ENVIRONMENTAL									
Parameter		Condition					Value		
Operating Temperature Range									-20°C to +50°C, Ambient
Max 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 ³ hours
Derating Graph	Output Current [%]	100 80 60 40							
	S	20 0 -2				20 3	0 40 ature		

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						



RACD06-LP

Series

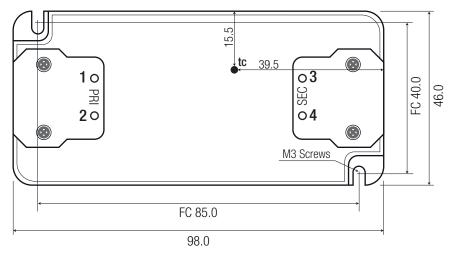
Specifications (measured @ ta= 25°C, 240VAC and rated load)

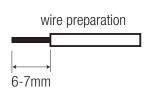
EMI Compliance		Standard / Criterion
Equipment for general Lighting Purpose - EMC Immunity Requirements	205004	EN61547, 2009
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	305984 + 305985	EN55015, 2015
Assessment of lighting equipment related to human exposure to electromagnetic fields		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

DIMENSION and PHYSICAL CHARACTERISTICS

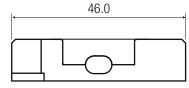
DIMENSION WING THIS GIVEN BUTCHES						
Parameter	Туре	Value				
Material	Case	Plastic (UL94V-2)				
Package Dimension (LxWxH)		98.0 x 46.0 x 11.0mm				
Package Weight		45g				

Mechanical Dimensions





2 mounting screws are included



Connection via Screw Terminal

#	Function	Solid Wire	Stranded Wire (2)	AWG
1	VAC in (N)	0.75-1.5mm ²	0.75-1.5mm ²	20-16
2	VAC in (L)	0.75-1.5mm ²	0.75-1.5mm ²	20-16
3	LED+	0.5-1.5mm ²	0.5-1.5mm ²	21-16
4	LED-	0.5-1.5mm ²	0.5-1.5mm ²	21-16

Notes:

Note2: The use of sleeve or ferrule terminations is recommended.

wire stripping length: 6-7mm recommended tightening torque: 0.25Nm tc= case temperature measuring point FC= fixing centers

NC= no connection

Tolerance: $xx.x = \pm 0.5mm$ $xx.xx = \pm 0.35$ mm

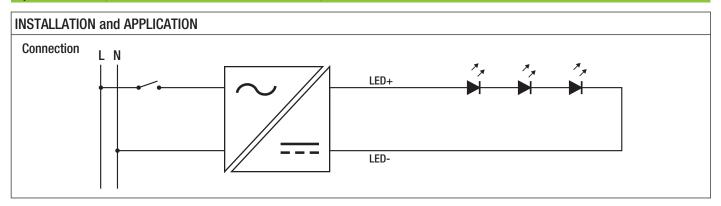
REV.: 0/2016 L-3 www.recom-power.com



RACD06-LP

Series

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



PACKAGING INFORMATION						
Parameter	Туре	Value				
Packaging Dimension (LxWxH)	Cardboard Dov	220.0 x 109.0 x 62.0mm				
Packaging Quantity	Cardboard Box	10pcs				
Storage Temperature Range		-20°C to +70°C				
Storage Humidity		5% - 85% RH				