Features

- 6W Class II AC-DC LED power supply
- 350mA, 500mA and 700mA CC/CV output
- Fused input and SCP, OVP, OLP, OTP

LED Driver

- 3kVAC isolation Universal input voltage range
- Low cost

Description

A compact universal input 6W constant current switching power module suitable for driving up to 12 high power LEDs. The output (dual constant voltage / constant current mode) current limit is fixed at 350mA, 500mA or 700mA. At lower output currents, the output is constant voltage.

Selection Guide

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Part Number	Input Voltage Range [VAC]	C Mo [VDC]		C\ Mod [VDC]	-	Efficiency typ. [%]	Rated Power nom./max. [W]
RACD06-350	90-264	3-22	350	24	0-300	79	6 / 7.2
RACD06-500	90-264	3-12	500	nor	ne	70	6
RACD06-700	90-264	3-8.4	700	12	0-600	72	6/7.2

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.

Model Numbering

nom. Output Power

– nom. Output Current



RACD06







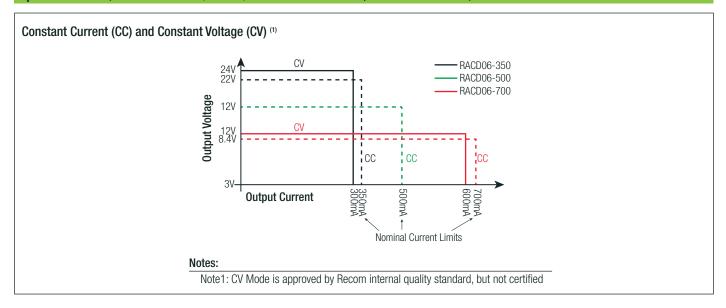


UL8750 certified UL1310 certified CAN/CSA-C22.2 No. 223-M91 certified IEC/EN61347 certified IEC/EN61347-2-13 certified ENEC certified PSE certified CB Report

BASIC CHARACTERISTICS							
Parameter	Conc	lition	Min.	Тур.	Max.		
Input Valtage Depag			90VAC	230VAC	264VAC		
Input Voltage Range			120VDC		370VDC		
Input Current	full load,	100VAC			200mA		
Inrush Current	115VAC/23	OVAC, <2ms			10A		
		350mA			26VDC		
Open Circuit Voltage	no load	500mA			17VDC		
		700mA			14VDC		
Input Frequency Range			47Hz		63Hz		
Devuer Feater	full lood	115VAC		0.40			
Power Factor	full load	230VAC		0.55			
Hold-up Time			18ms				
Output Ripple Current					200mAp-p		
	continu	ed on next pa	ge				

RACD06 Series

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)



PROTECTION					
Parameter	Condition	Value			
Input Fuse		T2A, slow blow			
Short Circuit Protection (SCP)		continuous, current limit			
Overload Protection (OLP)		120% typ.			
Over Temperature Protection (OTP)		shutdown, automatic resatart after cooling down			
Isolation Voltage	I/P to O/P	3.75kVAC / 1 minute			
Notes:	local safety regulations if input over-current	protection is also required			

Maximum loading of automatic circuit breakers*

* @ 115VAC, 10hm, 90° phase angle and max. load

* @ 230VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
С	221	247	337	430

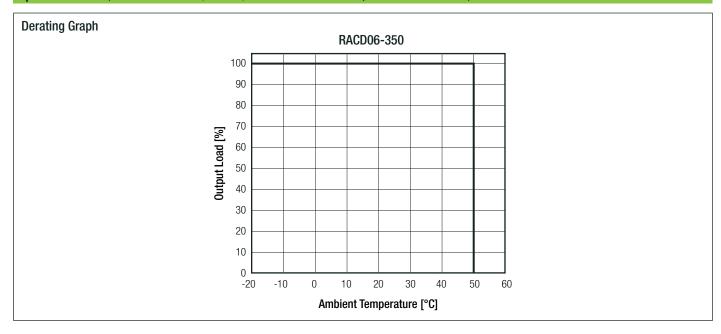
Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
В	80	157	200	254
С	265	317	437	550

ENVIRONMENTAL					
Parameter		Condition	Value		
	according to UL	RACD06-350	-20°C to +50°C		
Operating Temperature Range		RACD06-500, RACD06-700	-20°C to +40°C		
	according to ENEC	all	-20°C to +50°C		
	according to UL	RACD06-350	+75°C max.		
Max. Case Temperature		RACD06-500, RACD06-700	+70°C max.		
	according to ENEC	all	+70°C max.		
IP Rating			IP20		
Operating Humidity	no	n condensing	5%-85% RH		
Design Lifetime	+2	25°C ambient	20 x 10 ³ hours		

continued on next page

RACD06 Series

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)



SAFETY AND CERTIFICATIONS

Report Number	Standard
	UL8750, 1st Edition, 2009
E340696-1-3	UL1310, 5th Edition, 2010
_	CAN/CSA-C22.2 No. 223-M91, 2nd Edition, 2009
SH12051509-002	IEC61547, 2nd Edition, 2009
12CA61275-1	IEC/EN61347-2-13, 2006
SH12051508-002	EN61347-2-13,2006
12CA61275-1	IEC61347-1, 2nd Edition, 2010 EN61347-1, 2nd Edition, 2011
SH12051508-002	EN61347-1, 2nd Edition, 2008
	EN60598-1, 2009
SH12051508-003	EN60598-2-6, 1997
12CA61275-2	IEC/EN62384, 2009
	EN61347-1
ENEC-00610	EN61347-2-13
	J61347-1
	J63147-2-13
	RoHS 6/6, 2011/65/EU
RU Д- АТ.А ГОЗ. В.67369	TP TC 004/020, 2011
Condition	Standard / Criterion
	FCC18, Class A
_	EN55015, Class A
	CISPR15, 7th Edition, 2009
	J55015
	IEC61000-3-2, 3rd Edition, 2009 IEC61000-3-3, 2nd Edition, 2008
	E340696-1-3 SH12051509-002 12CA61275-1 SH12051508-002 12CA61275-1 SH12051508-002 SH12051508-003 12CA61275-2 ENEC-00610 RU Д- АТ.А ГОЗ. В.67369

RACD06

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)

Series

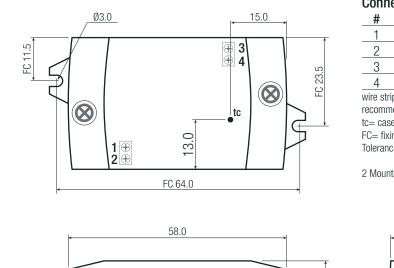
Value

34g

DIMENSION and PHYSICAL CHARACTERISTICS Parameter Туре case Material plastic (UL94V-0) Dimension (LxWxH) 68.0 x 35.0 x 21.0mm Weight

Dimensions Drawing (mm)





Connection via Corow Terminal

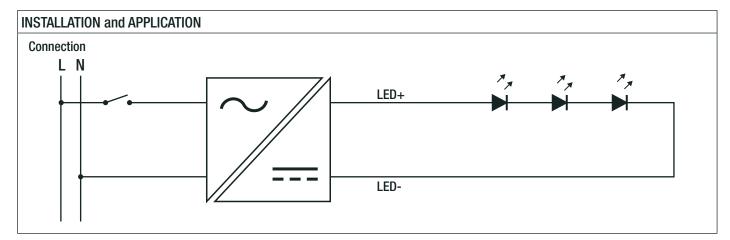
#	Function	Solid Wire	Stranded Wire ⁽³⁾	AWG
1	VAC in (N)	0.75-1.5mm ²	0.75-1.5mm ²	18-16
2	VAC in (L)	0.75-1.5mm ²	0.75-1.5mm ²	18-16
3	LED+	0.75-1.5mm ²	0.75-1.5mm ²	18-16
4	LED-	0.75-1.5mm ²	0.75-1.5mm ²	18-16
FC= fix Toleran		0.5mm		
2 Mour	$xx.xx = \pm 0.$ nting screws are			
2 Mour	nting screws are			

Notes:

68.0

Note3: The use of sleeve or ferrule terminations is recommended

21.0



RACD06 Series

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard Box	215.0 x 80.0 x 70.0mm		
Packaging Quantity		10pcs		
Storage Temperature Range		-30° to +80°C		
Storage Humidity	non-condensing	5%-85% 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 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.