## **Features**

**LED Driver** 

- 6W Class II AC-DC LED power supply
- 350mA, 500mA and 700mA CC/CV output
- Fused input and SCP, OVP, OLP, OTP
- 3kVAC isolation
- Universal input voltage range
- Low cost

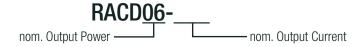
### Description

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							
Part Number	Input Voltage Range [VAC]	C Mo [VDC]	-	-	CV de <sup>(1)</sup> [mA]	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	no	one	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**



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

Parameter	Conc	lition	Min.	Тур.	Max.
Innut Valtaga Danga			90VAC	230VAC	264VAC
Input Voltage Range			120VDC		370VDC
Input Current	full load,	100VAC			200mA
Inrush Current	115VAC/230	OVAC, <2ms			10A
		350mA			26VDC
Open Circuit Voltage	no load	500mA			17VDC
		700mA			14VDC
Input Frequency Range			47Hz		63Hz
Dawar Faster	full lood	115VAC		0.40	
Power Factor	full load	230VAC		0.55	
Hold-up Time			18ms		
Output Ripple Current					200mAp-p



## RACD06

## 6 Watt CC/CV **Single Output**

















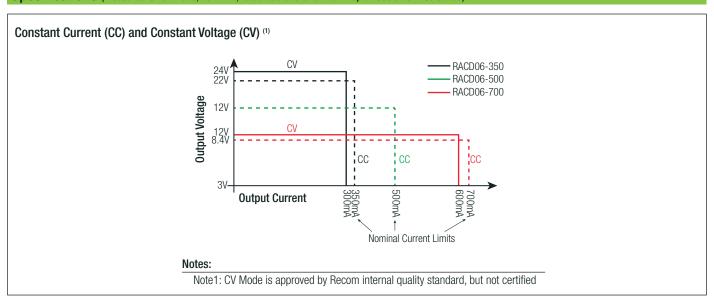


**UL8750** certified **UL1310** certified CAN/CSA-C22.2 No. 223-M91 certified IEC/EN61347 certified IEC/EN61347-2-13 certified **ENEC** certified **PSE** certified **CB** Report



## **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:

Note2: Refer to 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

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

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

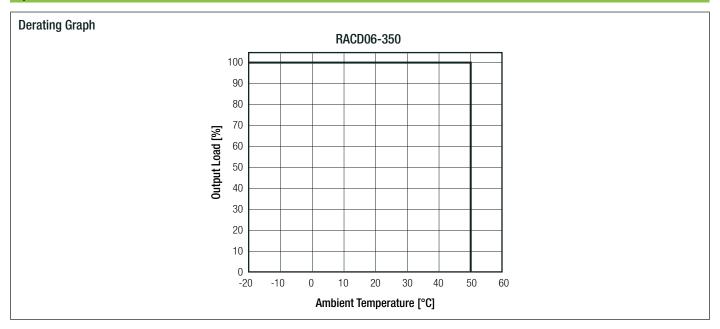
Olyanda Danalara	Nime with Divers			
Circuit Breaker	(	Fircuit Brea	ker Curren	IT.
Тур	10A	16A	20A	25A
В	80	157	200	254
С	265	317	437	550

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 <sup>3</sup> hours



## **Series**

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



SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report Number	Standard
Standard for LED Equipment for use in Lighting Products		UL8750, 1st Edition, 2009
Standard for Class 2 Power Units	E340696-1-3	UL1310, 5th Edition, 2010
Extra Low Voltage Class 2 Outputs		CAN/CSA-C22.2 No. 223-M91, 2nd Edition, 2009
Equipment for general Lighting Purpose EMC Immunity Requirements (CB scheme)	SH12051509-002	IEC61547, 2nd Edition, 2009
Lamp Controlgear Particular Requirements (CB scheme)	12CA61275-1	IEC/EN61347-2-13, 2006
Lamp Controlgear Particular Requirements	SH12051508-002	EN61347-2-13,2006
Lamp Controlgear General Requirments for Safety (CB scheme)	12CA61275-1	IEC61347-1, 2nd Edition, 2010 EN61347-1, 2nd Edition, 2011
Lamp Controlgear General Requirments for Safety	SH12051508-002	EN61347-1, 2nd Edition, 2008
Luminaires General Requirements and Tests	SH12051508-003	EN60598-1, 2009
Luminaires with built-in transformers for filament lamps	31112031300-003	EN60598-2-6, 1997
D.C. or A.C. Controlgears for LED Performance Requirements (CB scheme)	12CA61275-2	IEC/EN62384, 2009
Lamp Controlgear General Requirments for Safety (ENEC License)	ENEC-00610	EN61347-1
Lamp Controlgear Particular Requirements (ENEC License)	LINLO-00010	EN61347-2-13
Lamp Controlgear General Requirments for Safety (PSE)		J61347-1
Lamp Controlgear Particular Requirements (PSE)		J63147-2-13
RoHS		RoHS 6/6, 2011/65/EU
EAC	RU Д- АТ.А ГОЗ. В.67369	TP TC 004/020, 2011
EMC Compliance	Condition	Standard / Criterion
EMC for industrial, scientific and medical equipment (design to meet)		FCC18, Class A
Limits and methods of measurement of radio disturbance characteristics of		EN55015, Class A CISPR15, 7th Edition, 2009
electrical lighting and similar equipment (design to meet)  Limits and methods of measurement of radio disturbance characteristics of		J55015
electrical lighting and similar equipment (PSE)		
Limits of harmonic current emissions Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		IEC61000-3-2, 3rd Edition, 2009 IEC61000-3-3, 2nd Edition, 2008



## **Series**

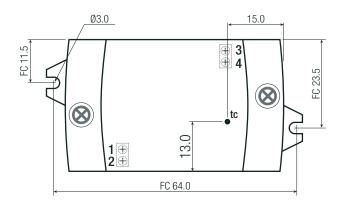
### Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)

DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	case	plastic (UL94V-0)	
Dimension (LxWxH)		68.0 x 35.0 x 21.0mm	
Weight		34g	

### **Dimensions Drawing (mm)**







### **Connection via Screw Terminal**

_#	Function	Solid Wire	Stranded Wire (3)	AWG
1	VAC in (N)	0.75-1.5mm <sup>2</sup>	0.75-1.5mm <sup>2</sup>	18-16
2	VAC in (L)	0.75-1.5mm <sup>2</sup>	0.75-1.5mm <sup>2</sup>	18-16
3	LED+	0.75-1.5mm <sup>2</sup>	0.75-1.5mm <sup>2</sup>	18-16
4	LFD-	0.75-1.5mm <sup>2</sup>	0.75-1.5mm <sup>2</sup>	18-16

wire stripping length: 5mm

recommended tightening torque: 0.22Nm

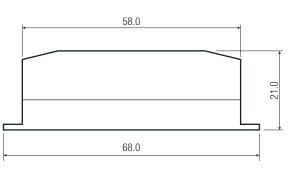
tc= case temperature measuring point

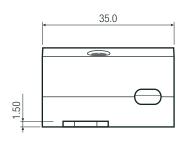
FC= fixing centers

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

 $xx.xx = \pm 0.35mm$ 

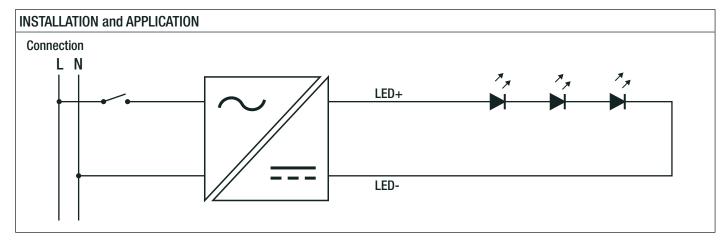
2 Mounting screws are included





#### Notes:

Note3: The use of sleeve or ferrule terminations is recommended





## **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		

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