Features Dimmable LED Driver

- Low Cost 230VAC LED Power Supply
- 0-10V dimmable
- Active Power Factor Correction >0.9
- Designed to drive 15W-46W COB LEDs
- Terminal Block Input/Output with Cable Clamps
- Fully Protected (OLP, SCP, OCP, OTP)
- Suitable for Class I and Class II Luminaires

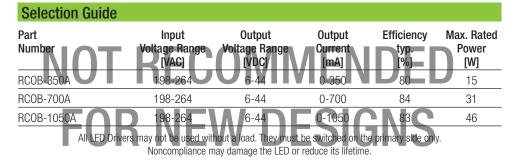
Description

These ErP-compliant COB LED drivers are available with three preset output currents: 350mA, 700mA and 1050mA. They are designed to drive COB (Chip On Board) high power LEDs with a forward voltage between 6V and 44VDC from a 230VAC supply (198-264VAC). They operate with efficiencies of up to 84%, feature active PFC and are fully protected against short circuit, output overvoltage, open-circuit and over-temperature conditions. The output current is dimmable over a 0%-100% range with a 0-10V external control voltage. The LED drivers are suitable for both independent and built-in installations and for installation inside furniture.



RCOB-A

Dimmable Active PFC Single Output













EN-61347-1 Compliant EN-61347-2-13 Compliant EN-55015 Compliant EN-61547 Compliant EN-61000-3-2 Compliant EN-61000-3-3 Compliant

Specifications (measured @ ta= 25°C, 230VAC and rated load)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		198VAC	230VAC	264VAC
Inrush Current	10μs		5.5A	
Start-up Time				0.5s
Input Frequency Range		47Hz		63Hz
Power Factor	full load		0.90	

RCOB-1050-A 95 90 85 75 70 22 27 32 37 42 46 Output Voltage [V]



Series

Specifications (measured @ ta= 25°C, 230VAC and rated load)

REGULATIONS		
Parameter	Condition	Value
Output Current Accuracy	includes: line, load and tolerance	±6% typ.

PROTECTION			
Parameter	Condition	Value	
Input Fuse		T1A	
Short Circuit Protection (SCP)		constant current limit at I _{nominal} and recovers after fault condition is removed	
Over Load Protection (OLP)		power limiting, if forward voltage of LED's is higher than 44VDC	
Output Over Voltage Protection (OVP)	Zener clamp	58VDC max.	
Output Over Current Protection (OCP)		constant current source	
Over Temperature Protection (OTP)		automatic recovery after cool down	
Isolation Voltage		3kVAC / 1 minute	
Surge Capacity	L-N	2kV	
	L,N-FG	4kV	

Maximum loading of automatic circuit breakers*

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

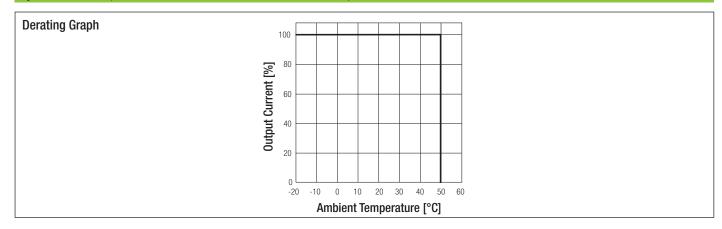
Power	Circuit Breaker	Circuit Breaker Current			
TOWCI	Тур	10A	16A	20A	25A
> 7\//	В	61	100	121	150
≥ 7W	С	121	164	221	291
> 15W	В	35	57	69	85
2 13W	С	57	87	109	134
≥ 25W	В	24	38	46	58
≥ ∠3VV	С	38	62	74	92
> 05W	В	18	30	35	43
≥ 35W	С	29	46	55	69
. 45114	В	17	28	33	41
≥ 45W	С	24	39	47	57

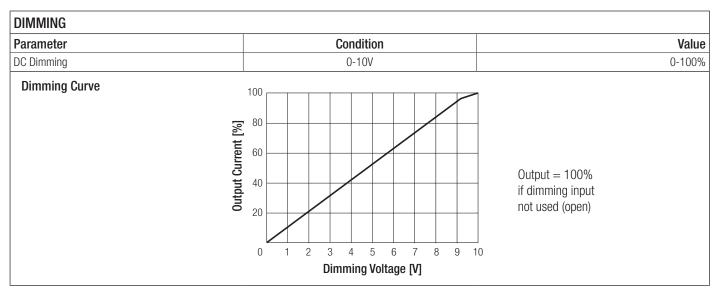
ENVIRONMENTAL			
Parameter	Condition	Value	
Operating Temperature Range		-20°C to +50°C, Ambient	
	RCOB-350A	80°C max.	
Maximum Case Temperature	RCOB-700A	85°C max.	
	RCOB-1050A	90°C max.	
Operating Humidity	RCOB-1050A	45% to 85% RH	
	RCOB-350 and RCOB-700A	5% to 85% RH, non condensing	
IP Rating		IP20	
MTBF	at Tc= 70°C; lout: 350mA	45 x 10 ³ hours	
	at Tc= 70°C; lout: 700mA, 1050mA	50 x 10 ³ hours	



Series

Specifications (measured @ ta= 25°C, 230VAC and rated load)





SAFETY AND CERTIFICATIONS				
Certificate Type		Standard		
Lamp Controlgear General Requirments for Safety	Compliant	EN61347-1		
Lamp Controlgear Particular Requirements	Compliant	EN61347-2-13		
RoHS		RoHS 6/6		
EMC Compliance		Standard / Criterion		
Equipment for general Lighting Purpose EMC Immunity Requirements		EN61547		
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	0	EN55015, Class B		
Limits of Harmonic Current Emissions	Compliant -	EN61000-3-2		
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3		

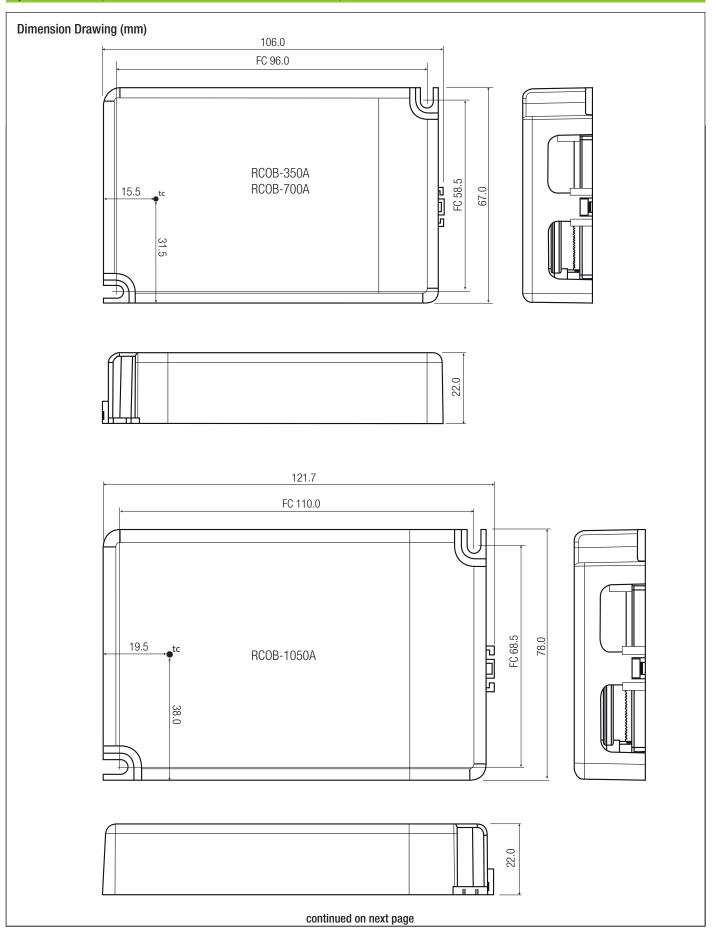
Parameter	Туре	Value
Case Material	with integrated cable clamps	Plastic (UL94V-2)
Package Dimension (LxWxH)	RCOB-350A; RCOB-700A	106.0 x 67.0 x 22.0mm
	RCOB-1050A	121.70 x 78.0 x 22.0mm
Package Weight	RCOB-350A; RCOB-700A	130g
	RCOB-1050A	180g

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Series

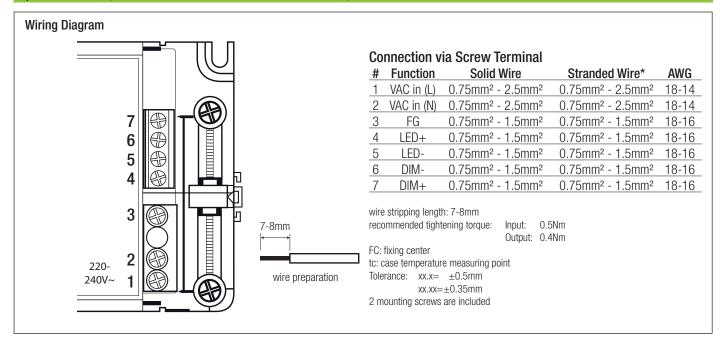
Specifications (measured @ ta= 25°C, 230VAC and rated load)

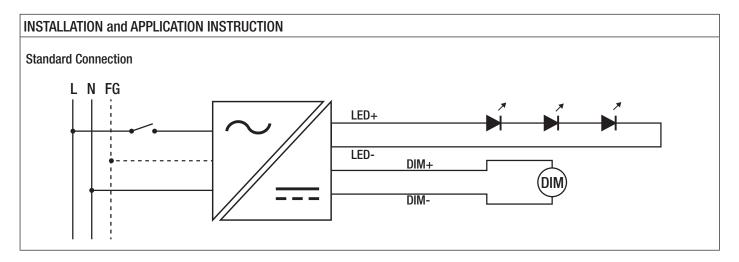




Series

Specifications (measured @ ta= 25°C, 230VAC and rated load)





PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardboard Box	180.0 x 140.0 x 220.0mm	
Packaging Quantity		10pcs	
Storage Temperature Range		-30°C to +80°C, Ambient	
Storage Humidity		30% - 95% 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.

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