Features

LED Driver

- Low Cost 230VAC LED Power Supply
- 350mA to 1050mA Output, 25-44VDC
- Active Power Factor Correction >0.95
- 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

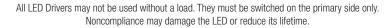
These COB LED drivers are available with eleven preset output currents between 350mA and 1050mA. They are designed to drive COB (Chip On Board) high power LEDs with a forward voltage between 25V and 44VDC from a 230VAC supply (198-264VAC). They operate with efficiencies of up to 90%, feature active PFC and are fully protected against short circuit, output overvoltage, open-circuit and over-temperature conditions. The LED drivers are suitable for both independent and built-in installations and for installations inside furniture.



RCOB

Constant Current Active PFC Single Output

Selection Guide					
Part Number	Input Voltage Range [VAC]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Rated Power [W]
RCOB-350	198-264	25-44	350	87	15
RCOB-400	198-264	25-44	400	87	17
RCOB-450	198-264	25-44	450	88	20
RCOB-500	198-264	25-44	500	88	22
RCOB-550	198-264	25-44	550	88	24
RCOB-600	198-264	25-44	600	89	26
RCOB-650	198-264	25-44	650	89	28
RCOB-700	198-264	25-44	700	89	31
RCOB-800	198-264	25-44	800	90	35
RCOB-900	198-264	25-44	900	90	40
RC0B-1050	198-264	25-44	1050	90	46











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)

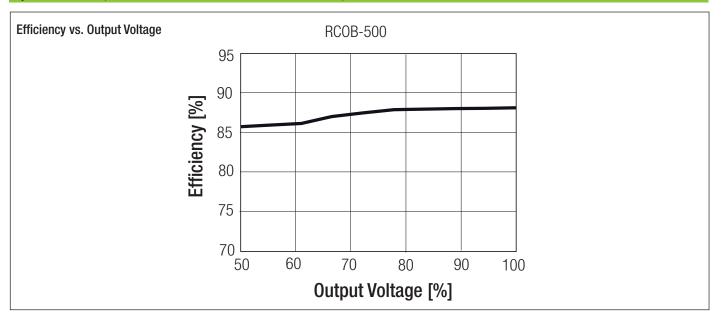
BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		198VAC		264VAC
Output Voltage Range	full load	25VDC		44VDC
absoulute max. Output Voltage	full load			56VDC
Inrush Current	at 230VAC		8A / 10µs	
Start-up Time	at 230VAC			1 second
Input Frequency Range		47Hz		63Hz
Power Factor	full load, 230VAC		0.95	

continued on next page



Series

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



REGULATIONS		
Parameter	C ondition	Value
Output Current Accuracy	includes: line, load and tolerance	±8% typ.

PROTECTION			
Parameter	Condition	Value	
Input Fuse	Standard	T1A	
Short Circuit Protection (SCP)	230VAC / 50Hz	constant current limit at I _{nominal} and recovers after fault condition is removed	
Over Load Protection (OLP)	230VAC / 50Hz	power limiting if forward voltage of LED's is higher than 44VDC	
Output Over Voltage Protection (OVP)	230VAC / 50Hz	56V max.	
Output Over Current Protection (OCP)	230VAC / 50Hz	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			
	Тур	10A	16A	20A	25A
≥ 7W	В	61	100	121	150
≥ / VV	С	121	164	221	291
> 1EW	В	35	57	69	85
≥ 15W	С	57	87	109	134
> 0EW	В	24	38	46	58
≥ 25W	С	38	62	74	92
> 0EW	В	18	30	35	43
≥ 35W -	С	29	46	55	69
> 45\\\	В	17	28	33	41
≥ 45W	С	24	39	47	57

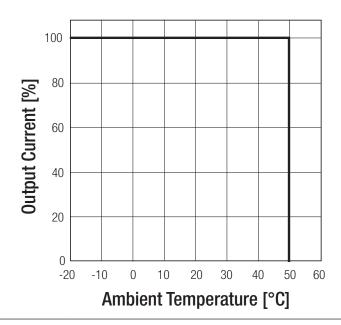


Series

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

ENVIRONMENTAL			
Parameter	Condition	Value	
Operating Temperature Range	all Types	-20°C to +50°C, Ambient	
max. Case Temperature Range	RCOB-350 to -500	80°C max.	
	RCOB-550 to -700	85°C max.	
	RCOB-800 to -1050	90°C max.	
Operating Humidity	RCOB-800 to -1050	45% to 85% RH	
Operating Humidity	RCOB-350 to -700	5% to 85% RH, non condensing	
MTBF	at Tc= 80°C	50 x 10 ³ hours	

Derating Graph



SAFETY AND CERTIFICATIONS			
Certificate Type		Standard	
CE General Safety	Compliant	EN-61347-1	
CE Safety of AC supplied Control Gear for LED Modules	Compliant	EN-61347-2-13	
RoHS	Compliant	RoHS 6/6	
Certificate Type (Environmental)		Standard / Criterion	
Electric Lighting, EMC Immunity	Compliant	EN-61547	
Electric Lighting, EMC Emissions	Compliant	EN55015, Class B	
Limits for Harmonic Emissions	Compliant	EN-61000-3-2	
EMC Compatability: Flicker and Voltage Variations	Compliant	EN-61000-3-3	
IP Rating		IP20	

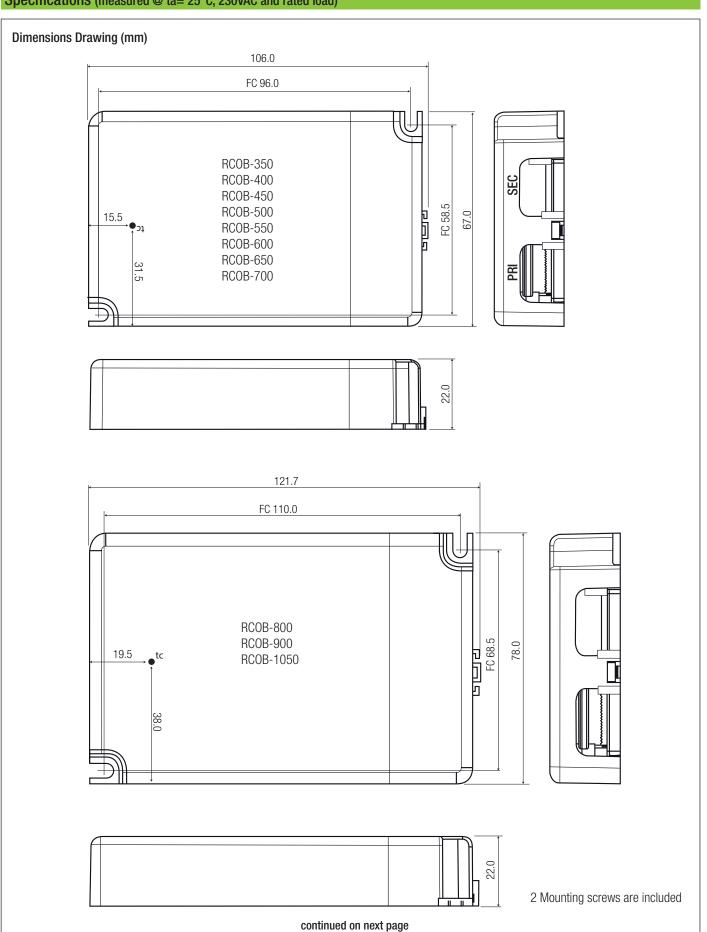
Parameter	Туре	Value
Case Material		Integrated cable clamps, Plastic
Dealyaga Dimension (LyMM)	RCOB-350 to 700	106 x 67 x 22mm
Package Dimension (LxWxH)	RCOB-800 to -1050	121.7 x 78 x 22mm
Dealage Weight	RCOB-350 to 700	108g
Package Weight	RCOB-800 to -1050	165g

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Series

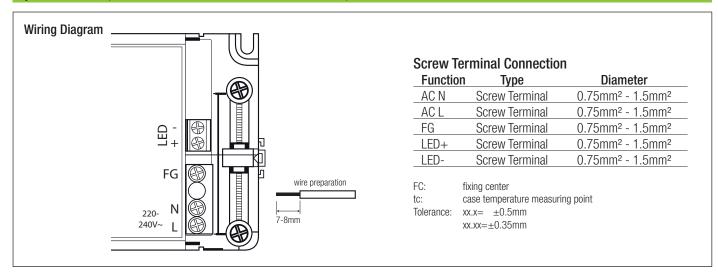
Specifications (measured @ ta= 25°C, 230VAC and rated load)

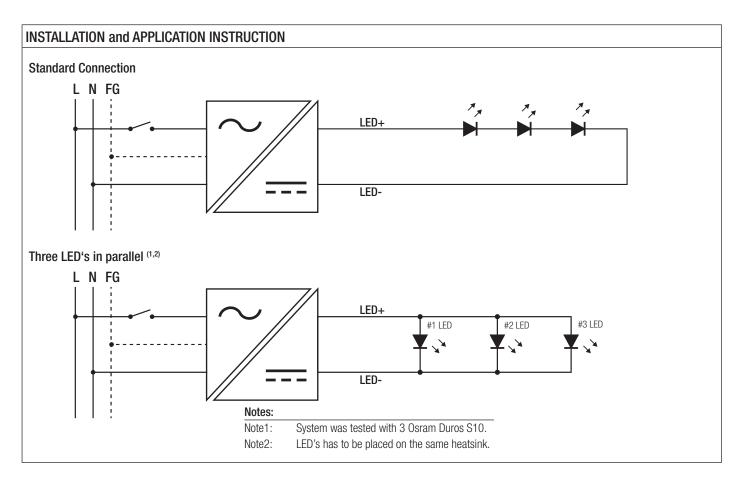




Series

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





PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardboard Box	180 x 140 x 220mm	
Packaging Quantity		10pcs	
Storage Temperature Range		-30° to +80°C, Ambient	
Storage Humidity		30% - 95% RH	

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