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









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

Selection Guide					
Part Number	Input Voltage Range [VAC]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Rated Power [W]
RC0B-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
RC0B-500	198-264	25-44	500	88	22
RC0B-550	198-264	25-44	550	88	24
RC0B-600	198-264	25-44	600	89	26
RC0B-650	198-264	25-44	650	89	28
RC0B-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

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, 230VAC and rated load)

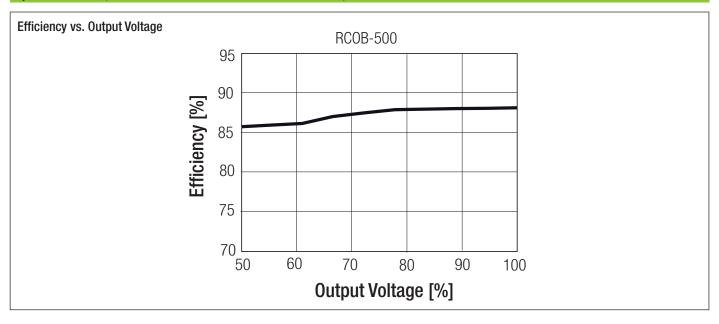
BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		198VAC	230VAC	264VAC
Inrush Current	10µs		8A	
Start-up Time				1s
Input Frequency Range		47Hz		63Hz
Power Factor	full load		0.95	

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		T1A, slow blow		
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	56VDC max.		
Output Over Current Protection (OCP)		constant current source		
Over Temperature Protection (OTP)		automatic recovery after cool down		
Isolation Voltage		3kVAC / 1 minute		
Curao Conocitu	L-N	2kV		
Surge Capacity	L,N-FG	4kV		

Maximum loading of automatic circuit breakers*

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

Power	Circuit Breaker	Circuit Breaker Current				
I OWEI	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)

NVIRONMENTAL		
arameter	Condition	Value
perating Temperature Range		-20°C to +50°C, Ambient
	RCOB-350 to -500	80°C max
1ax. Case Temperature	RC0B-550 to -700	85°C max.
	RC0B-800 to -1050	90°C max.
perating Humidity	RC0B-800 to -1050	45% to 85% RH
	RCOB-350 to -700	5% to 85% RH, non condensing
P Rating		IP20
1TBF	at Tc= 80°C	50 x 10 ³ hours
Output Current [%]	100 80 60 40 20 -20 -10 0 10 20 30 40 50 60 Ambient Temperature [°C]	

SAFETY AND CERTIFICATIONS		
Certificate Type		Standard
Lamp Controlgear General Requirments for Safety	Compliant	
Lamp Controlgear Particular Requirements		
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	Compliant	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

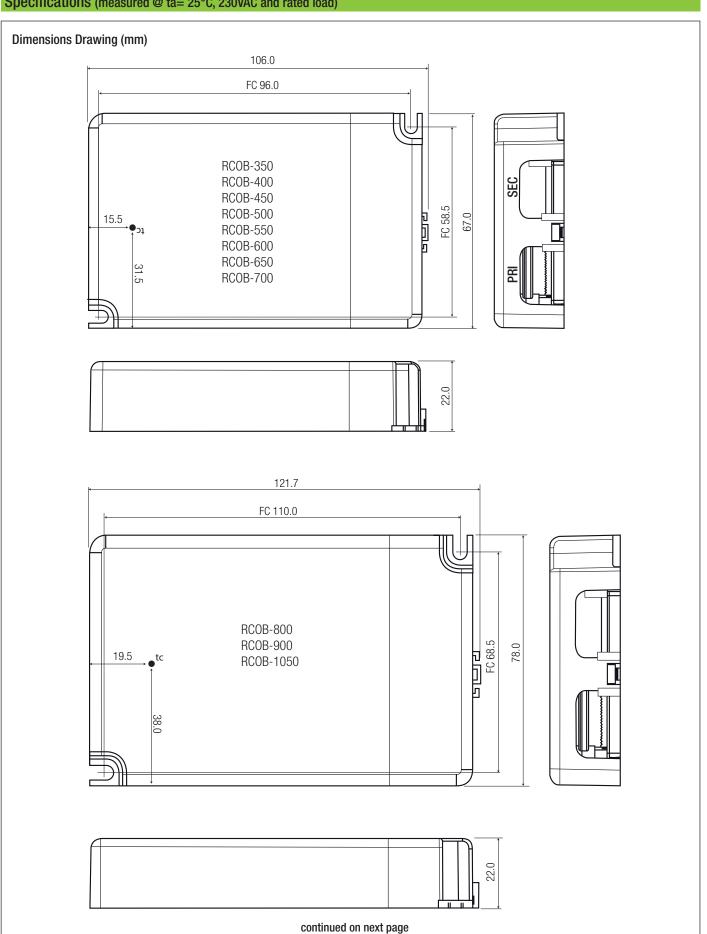
Daywester. Time				
Parameter	Туре	Value		
Case Material	with integrated cable clamps	Plastic (UL94V-2)		
Package Dimension (LxWxH)	RCOB-350 to 700	106.0 x 67.0 x 22.0mm		
	RCOB-800 to -1050	121.70 x 78.0 x 22.0mm		
Package Weight	RCOB-350 to 700	108g		
	RCOB-800 to -1050	165g		

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Series

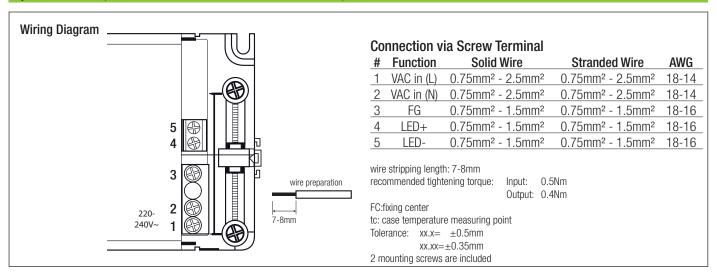
Specifications (measured @ ta= 25°C, 230VAC and rated load)

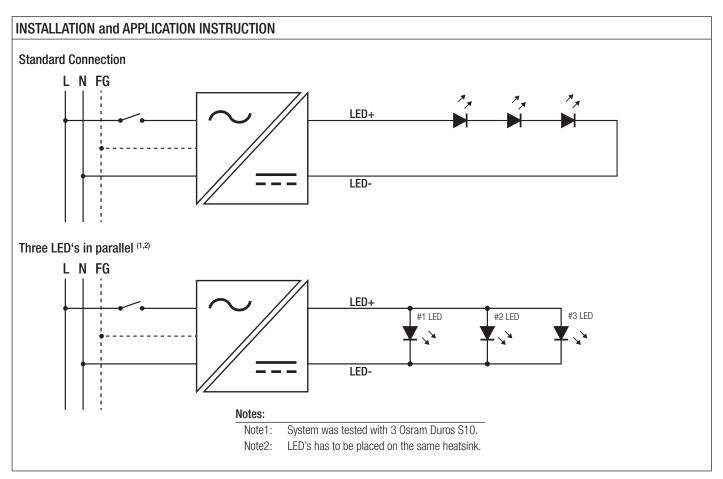




Series

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





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

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