Features

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

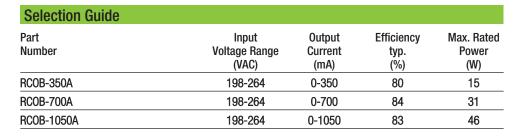
Description

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 85%, 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







Specifications (measured at TA= 25°C, nominal input voltage, rated load)

| BASIC CHARACTERISTICS | | | | | |
|-------------------------------|----------------------------------|--------|-------------|--------|--|
| Parameter | Condition | Min. | Тур. | Max. | |
| Input Voltage Range | | 198VAC | 230VAC | 264VAC | |
| Output Voltage Range | full load | 6VDC | | 44VDC | |
| absoulute max. Output Voltage | full load | | | 58VDC | |
| Inrush Current | at 230VAC | | 5.5A / 10µs | | |
| Start-up Time | at 230VAC | | ≤0.5 Second | | |
| Input Frequency | | 47Hz | 50Hz | 63Hz | |
| Efficiency | see Selection Guide | | | | |
| Output Current Accuracy | low line to high line, full load | | ±6% | | |
| Power Factor | full load, 230VAC | | 0.9 | | |



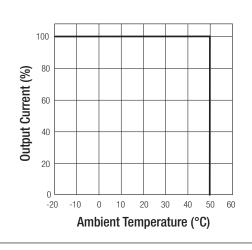






EN-61347-1 Compliant EN-61347-2-13 Compliant EN-55015 Compliant EN-61547 Compliant EN-61000-3-2 Compliant EN-61000-3-3 Compliant

Derating Graph

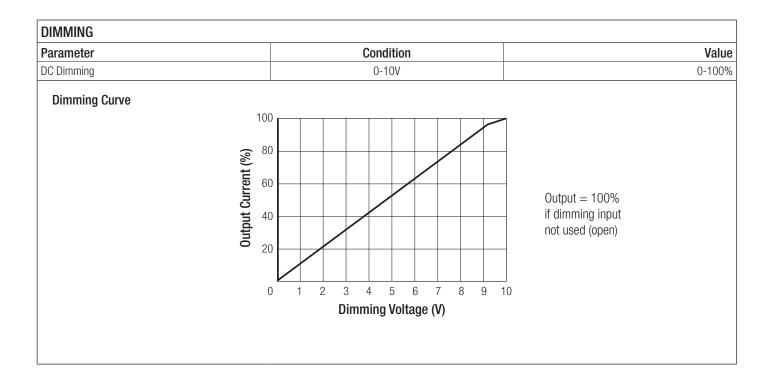


Refer to Applications Notes



RCOB-A

Series



| PROTECTION | | | | |
|--------------------------------------|---------------|--|--|--|
| Parameter | Condition | Value | | |
| 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 | 58V max. | | |
| Output Over Current Protection (OCP) | 230VAC / 50Hz | constant current source | | |
| Over Temperature Protection (OTP) | | automatic recovery after cool down | | |
| Surge Capacity | L-N | 2kV | | |
| | L,N-FG | 4kV | | |

| ENVIRONMENTAL | | | |
|-----------------------------|----------------------------------|------------------------------|--|
| Parameter | Condition | Value | |
| Operating Temperature Range | All Types | -20°C to +50°C, Ambient | |
| max. Case Temperature Range | RCOB-350A | 80°C max., Ambient | |
| | RCOB-700A | 85°C max., Ambient | |
| | RCOB-1050A | 90°C max., Ambient | |
| Storage Temperature Range | | -30° to +80°C, Ambient | |
| Storage Humidity | | 30% - 95% RH | |
| Operating Humidity | RCOB-1050A | 45% to 85% RH | |
| | RCOB-350 and RCOB-700A | 5% to 85% RH, non condensing | |
| MTBF | at Ta= 70°C; lout: 350mA | 45 x 10 ³ hours | |
| | at Ta= 70°C; lout: 700mA, 1050mA | 50 x 10 ³ hours | |



RCOB-A

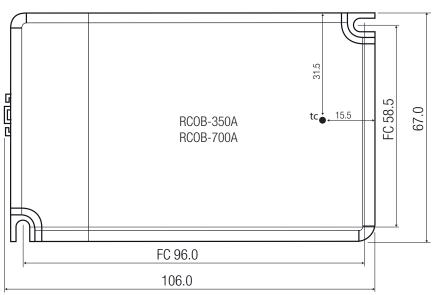
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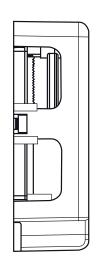
Specifications (measured at TA= 25°C, nominal input voltage, rated load)

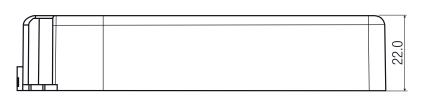
| SAFETY AND CERTIFICATIONS | | | | |
|--|-----------|----------------------|--|--|
| Certificate Type | | Standard | | |
| CE General Safety | compliant | EN-61347-1 | | |
| CE Safety of AC supplied Control Gear for LED Modules | compliant | EN-61347-2-13 | | |
| RoHS | compliant | RoHS 6/6 | | |
|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

| DIMENSIONS and PHYSICAL CHARACTERISTICS | | | |
|---|------------------------------------|--------------------------------------|--|
| Case Material | integrated cable clamps, Plastic | | |
| Package Dimensions (LxWxH) | RCOB-350A; RCOB-700A RCOB-1050A | 106 x 67 x 22mm 121.7 x 78 x 22mm | |
| Package Weight | RCOB-350A; RCOB-700A RCOB-1050A | 130g 180g | |
| Packaging Dimension (LxWxH) | | 12.5 x 8.2 x 3.8 | |
| Packaging Quantity | | 10pcs | |

Mechanical Dimensions







2 Mounting screws are included tc= Case Temperature Measuring Point

Tolerance: ±0.5mm FC: fixing center

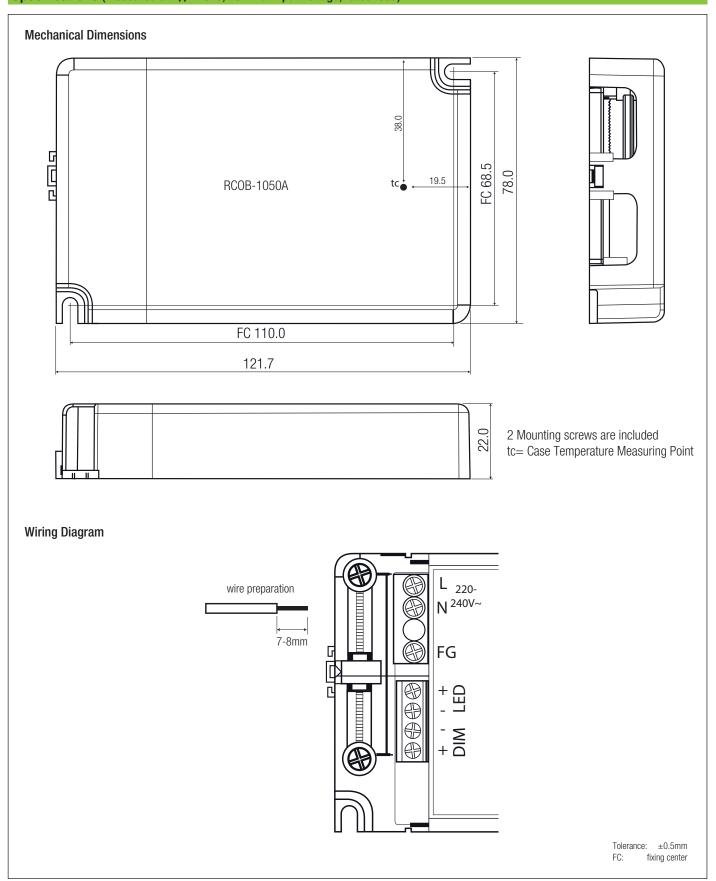
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RCOB-A

Series

Specifications (measured at TA= 25°C, nominal input voltage, rated load)



The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications.

The buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or property damage.