CUPOWER

ID LCCB 75/230/125-550 DALI NFC IND FV1
Art. 160914

Product features

- Built-in non isolated adjustable power LED driver
- Flicker-free LED driver
- Supports DALI-2, push DIM
- Current adjustment via NFC
- Output current 125…550 mA
- Max. output power 75 W
- Constant lumen output (CLO)
- For luminaires with protection class l
- 5 years warranty

Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
125…550 mA	220…240 Vac 220…240 Vdc	64…290 Vdc	93.5%	± 5%	0.9	358x30x21

Electrical specifications

Mains voltage supply

Rated input voltage range	220…240 Vac
Max. input voltage range	198...264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.40 A @ 230 Vac

Battery operation

DC voltage range	198...276 Vdc
Max. DC voltage range	176…276 Vdc

Protection against voltage peaks

Withstand voltage	l/p-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 4 kV, L-FG 4 kV, N-FG 4 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	20%

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Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	300 Vdc
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 300 V
Overpower protection	The output power is less than or equal to 90 W
Short circuit protection	Yes

Dimming operation and interface

Dimming range	1%...100%
Standby power consumption	0.3 W

Connection terminals

Connection terminal type	0° push in terminal
Wire cross section	Input and output wire: 0.2…1.5 mm²
Wire stripping length	8…9 mm

Degree of protection

Protection rating	IP20

Operating data

Output current range	NFC control adjusts the current: 125…550 mA
Default current	125 mA
Output voltage range	64…290 Vdc
Noise leve	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 10.2 A		Inrush current Twidth: 360 µs	
	MCB type	B10	C10	B16	C16
	Units	17	28	27	45

Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.
- Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed

Environmental specifications

Operating temperature	-40…+65°C
Storage temperature	-40…+85°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

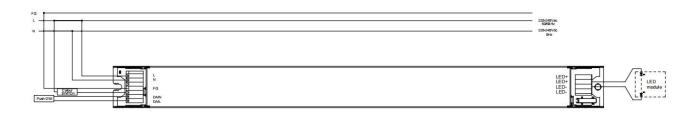| ENEC+CE	CCC	SAA
EN 61347-1:2015/A1:2021		AS 61347.2.13:2018
EN 61347-2-13:2014/A1:2017		AS/NZS 61347.1:2016+A1
EN IEC 62384:2020		
EN 300 330 V2.1.1:2017		
EN 62479:2010		
EN 50663:2017		
EN 301 489-1 V2.2.3:2019		
EN 301 489-3 V2.1.1:2019		
EN IEC 55015:2019/A11:2020		
EN 61547:2009		
EN IEC 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		
EN 61347-1:2015/A1:2021		
EN 61347-2-13:2014/A1:2017		
EN 62493:2015		

Dimensions

Housing dimensions

Length (L)	358 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.263 kg

Packaging details

Packing units	20 pcs
Carton size	381 x 128 x 128 mm
Weight	6 kg

Ratio 1,000

unit:mm
tol:±0.2mm

Wiring diagram

- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5…10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
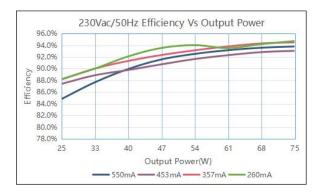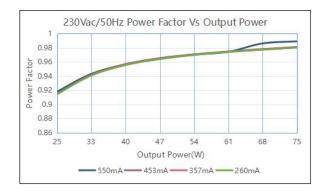- The wire must be well protected against short circuit.
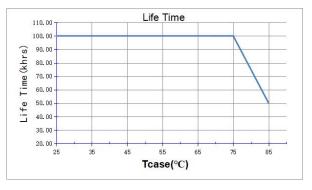
Technical information

230Vac/50Hz Efficiency Vs Output Power

230Vac/50Hz Power Factor Vs Output Power

230Vac/50Hz THD Vs Output Power

Life Time

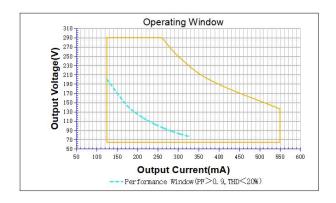Operating Window

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 75 W + 5%.

Example of AOC settings

V LED (Vdc）	AOC max	Pout (W）
136	550 mA	75
200	375 mA	75
250	300 mA	75
290	260 mA	75