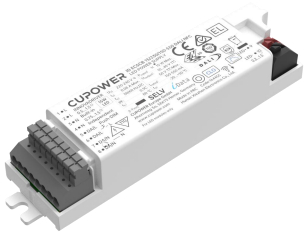
ID ECSCB 15/230/150-550 DALI NFC

Art. 164455

Product features

- Isolated adjustable power LED driver
- Supports DALI-2, push DIM control
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 150…550 mA
- Max. output power 15 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Current output default value 100%
- For luminaires with protection class I, II
- Anti-glow



Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150…550 mA	220…240 Vac 220…240 Vdc	10…40 Vdc	87% (@40V 375 mA)	± 5%	0.9 (Output Power >6.5 W @ 230 Vac 50 Hz)	105 x 29 x 21

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	0.08 A @ 230 Vac & 0.08 A @ 230 Vdc

Battery operation	
DC voltage range	220...240 Vdc
Max. DC voltage range	176…276 Vdc

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3 kVac,< 5 mA 60 sec, I/p-Da: 1.5 kVac, < 5 mA 60 sec, O/p-Da: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV

Total harmonic distortion (THD)	
At rated input voltage range @ full load	10%

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Output data	
Output current tolerance	± 5% at rated input voltage range
No load output voltage	≤ 50 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage
DC emergency level	Current output decreased to 15% (programmable)

Protection functions output side	
Overvoltage protection	The output voltage is less than or equal to 50 V
Overpower protection	The output power is less than or equal to 18 W
Short circuit protection	Short circuit protection is designed to turn off the output and cannot be automatically restored. After removing the short circuit, the output can be restored by one of the following two operations: • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.
No load output voltage	Open circuit protection is designed to turn off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations: • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.

Dimming operation and interface	
Standby power consumption	< 0.5 W
Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100%

Connection terminals	
Connection terminal type	Input terminal: 0°, Output terminal: 45°
Wire cross section	Input wire: 0.5…1.5 mm² @ Built-in , 0.75…1.5 mm² @ Independent 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: 150…550 mA
Default current	150 mA
Output voltage range	10…40 Vdc

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Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 9.5 A			Inrush current Twidth: 155 us	
	MCB type	B10	C10	B16	C16
	Units	72	106	115	170

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.
- The recommended NFC communication distance：5...20 mm.

Environmental specifications

Operating temperature	-20… +50 °C
Storage temperature	-25… +85 °C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 80 °C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	85 °C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1: 2015/A1:2021	/	/
EN 61347-2-13: 2014/A1: 2017	/	/
EN 62384: 2020	/	/
EN 300 330 V2.11: 2017	/	/
EN 62479: 2010	/	/
EN 50663: 2017	/	/
EN 301 489-1 V2.2.3:2019	/	/
EN 301 489-3V2.3.2: 2023	/	/
EN 55015:2019/A11: 2020	/	/
EN 61547: 2009	/	/
EN 61000-3-2:2019/A1: 2021	/	/
EN 61000-3-3:2013/A2: 2021	/	/

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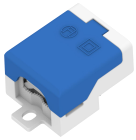
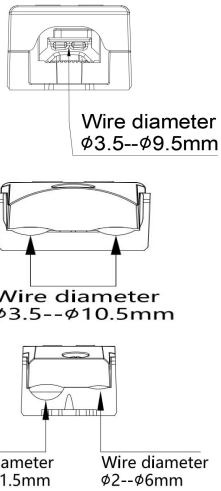
Accessories (optional)

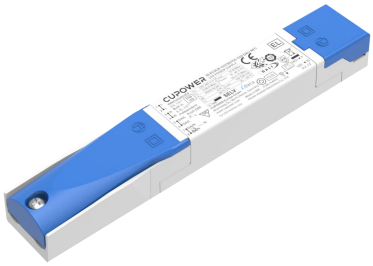


Art. 161218 XZ-FLASH-A

Art. 166480 XZ-FLASH-LOOP-A

Art. 166596 XZ-FLASH-B



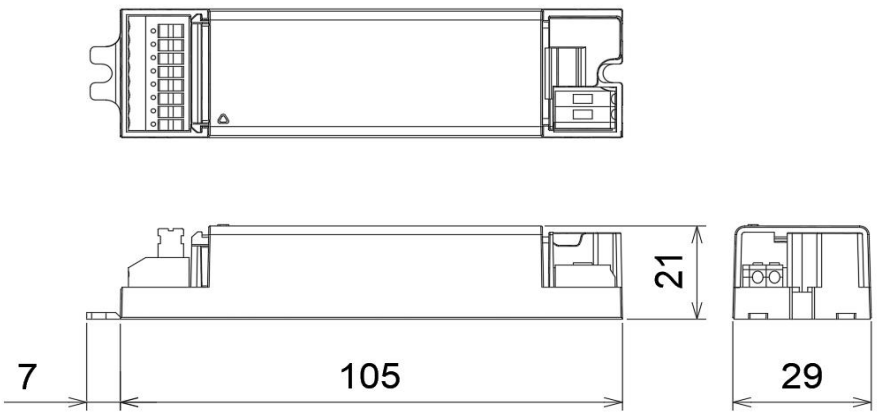


Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-FLASH-A	40.2	29	21
XZ-FLASH-LOOP-A	72.8	30	21
XZ-FLASH-B	53.6	29	21
Driver incl. XZ-FLASH-A + XZ-FLASH-LOOP-A	185	30	21
Driver incl. XZ-FLASH-B + XZ-FLASH-A	165.5	29	21
Driver incl. XZ-FLASH-B + XZ-FLASH-B	178.8	29	21
Driver incl. XZ-FLASH-B + XZ-FLASH-LOOP-A	198	30	21
Driver incl. XZ-FLASH-A + XZ-FLASH-A	152	29	21

Dimensions

Housing dimensions	
Length (L)	105 mm
Width (W)	29 mm
Height (H)	21 mm
For all dimensions: values in mm; tolerances: ± 0.5mm	

Packaging details	
Packing units	32 pcs
Carton size	174 x 117 x 137 mm
Carton weight	2.04 kg
Product Weight	0.059 kg



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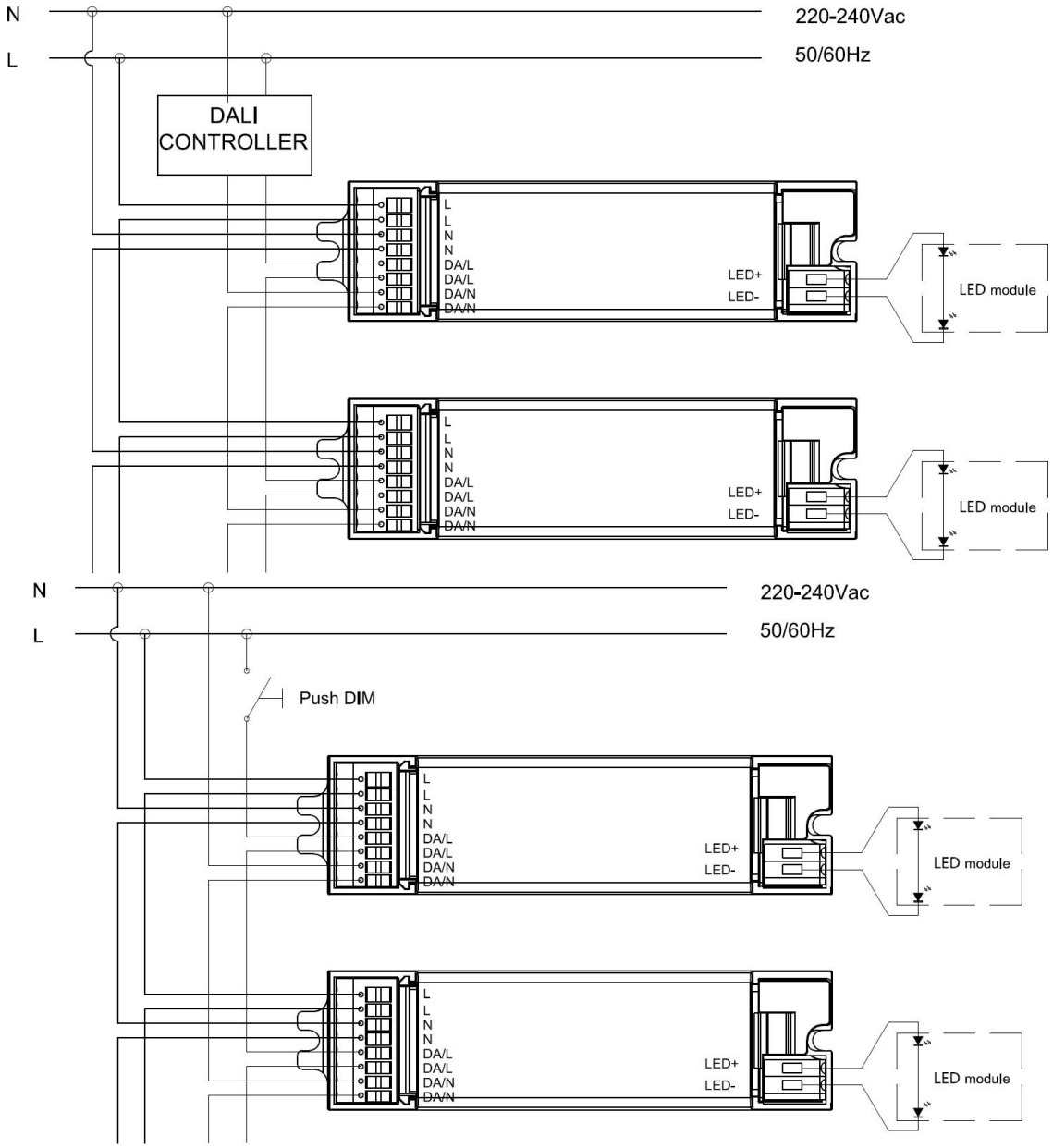
Wiring diagram



- 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 circuits.

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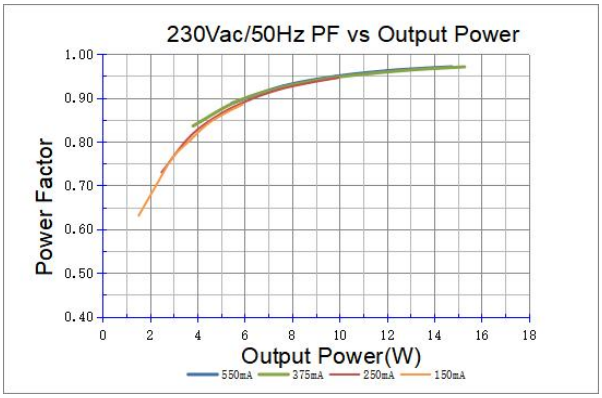
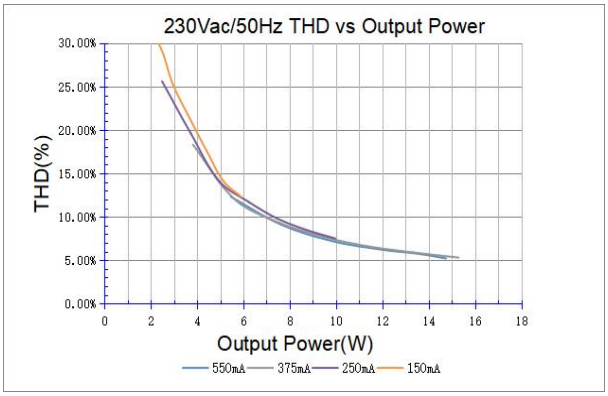
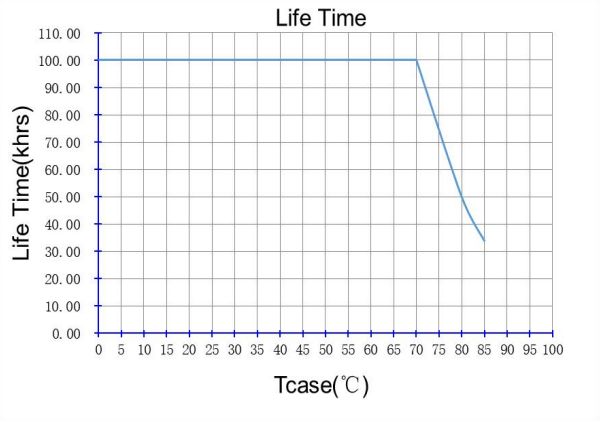
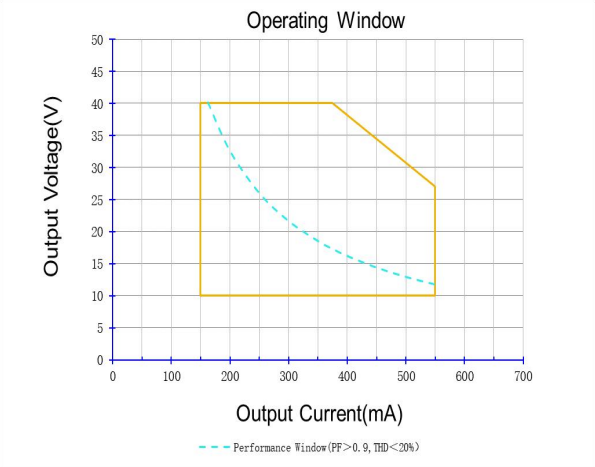
Technical information









It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 15 W + 5%.

Example of AOC settings

V LED (Vdc）	AOC max	Pout (W）
40	375 mA	15
35	428 mA	15
30	500 mA	15
27	550 mA	14.85

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