## ID CCCB 28/230/150-700 DALI FV1

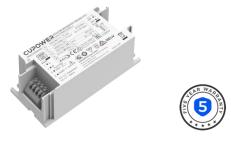
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- Stand alone type dimmable adjustable output power LED driver
- Supports DALI-2, push DIM

**Product features** 

- Flicker free LED driver, DALI-2 certified incl. Parts 251, 252, 253
- Output current: 150 mA, 200 mA,, 250 mA, 300 mA, 350 mA, 400 mA, 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA
- Max. output power 28 W
- Constant lumen output (CLO)
- For luminaires with protection class I, II
- 5-year warranty



### **Product specifications**

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Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
150700 mA	220…240 Vac 198…250 Vdc	652 Vdc	88%	± 5%	0.9	97 x 43 x 30

### **Electrical specifications**

#### Mains voltage supply

Rated input voltage range	220240 Vac
Max. input voltage range	198264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.25 A @ 230 Vac

#### **Battery operation**

DC voltage range	198250 Vdc
Max. DC voltage range	176276 Vdc

#### Protection against voltage peaks

Withstand voltage	I/p-O/p: 3.75KVac, < 5mA 60 sec; I/p-DA/p: 1.5 kVac, < 5 mA 60 sec; O/p-DA/p: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, DA/L-DA/N 1 kV

#### Total harmonic distortion (THD)

At rated input voltage range @ full load	15%

#### Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	≤ 59 Vdc

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Ripple output current	4% (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

#### Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 59 V
Overpower protection	The output power is less than or equal to 30 W
Short circuit protection	Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

#### Dimming operation and interface

Standby power consumption	≤ 0.5 W
Dimming mode	DALI-2, push DIM
Dimming method	Amplitude dimming
Dimming current range	1%~100%

#### **Connection terminals**

Connection terminal type	Push in terminal
Wire cross section	Input and output wire: 0.51.5 mm <sup>2</sup>
Wire stripping length	78 mm

#### Degree of protection

•	
Protection rating	IP20

### Operating data

Output current range	DIP-switch adjusts the current: 150 mA, 200 mA; 250 mA, 300 mA, 350 mA, 400 mA, 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA
Default current	150 mA
Output voltage range	652 Vdc

#### Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 2.4 A			Inrush current Twidth: 34 µs		
	MCB type	B10	C10		B16	C16
	Units	58	58		93	93

### 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.

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## **Environmental specifications**

Operating temperature	-20+50°C
Storage temperature	-40+80°C
Working humidity	10%90%
Store humidity	5%90%
Lifetime	at Tc 85°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	85°C

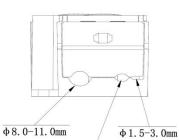
## Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-2-13:2014/A1: 2017		AS/NZS IEC 61347.2.13.2013
EN 61347-1:2015/A1: 2021		AS/NZS 61347.1: 2016
EN 62384:2006/A1: 2009		
EN 55015:2013/A1: 2015		
EN 61000-3-2: 2014		
EN 61000-3-3: 2013		
EN 61547:2009	1	
EN IEC 62384:2020	1	
EN 62493:2015	1	

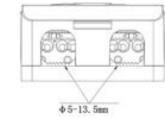
## Accessories (optional)

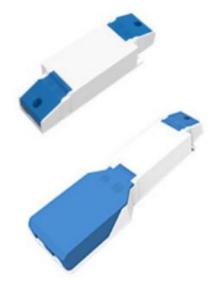


XZ-ID-Art. 160679 LOOP-A



φ 3. 0-6. 0mm





Dimensions	Length (mm)	Width (mm)	Height (mm)	
XZ-ID-A	38	34	30	
XZ-ID-LOOP-A	107	57	30	
Driver incl. 2 x XZ-ID-A	143	43	30	
Driver incl. XZ-ID-A + XZ-ID- LOOP-A	212	57	30	
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Errors excepted. We reserve the right to make alterations in the interest of improving our products.

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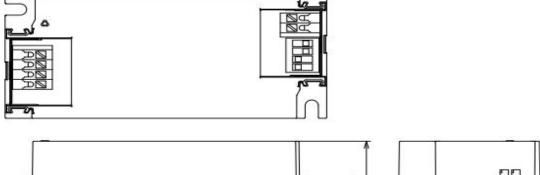
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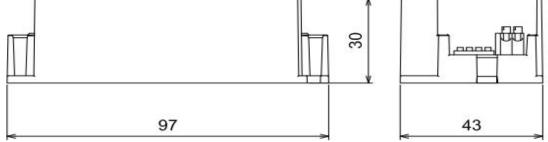
## Dimensions

## Housing dimensions

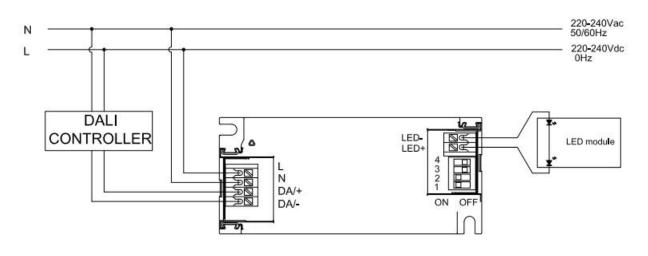
Length (L)	97 mm
Width (W)	43 mm
Height (H)	30 mm
Weight	0.95 kg

Packaging details	<b>i</b>
Packing units	45 pcs.
Carton size	303 x 225 x 120 mm
Weight	4.5 kg





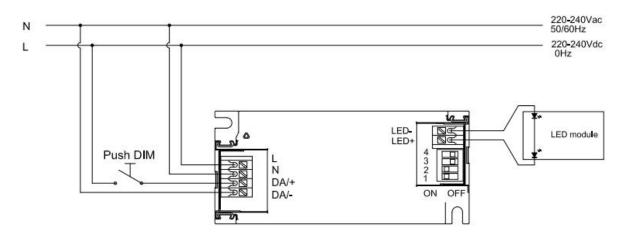
## Wiring diagram



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- .
- 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). •
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit. •

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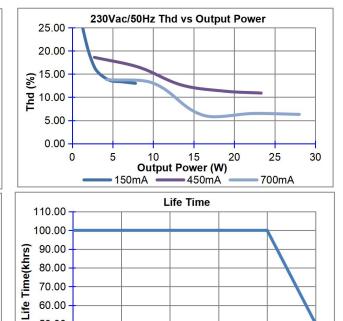
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#### 230Vac/50Hz PF vs Output Power 1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0 5 10 20 25 30 15 **Output Power (W)** 150mA 700mA 450mA 230Vac/50Hz Efficency vs Output Power 90.00 89.00 88.00 87.00 86.00 Efficency 85.00 84.00 83.00 82.00 81.00 80.00 0 5 10 15 20 25 30 Output Power (W) 450mA 150mA 700mA

**Operating Window** 

100 150 200 250 300 350 400 450 500 550 600 650 700 750 Output Current (mA) —— Perfoemence window(PF>0.9 THD<20%)

**Technical information** 



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 28 W + 5%. Adjustable output current with DIP-switch

55

Tcase(°C)

65

75

85

45

50.00

40.00 -

35

djustable output current with DIP-switch							
Vout (V)	Pout (W)	lout (mA)	1	2	3	4	
6-52			-	-	-	-	
6-52			-	-	-	ON	
6-52	7.8	150	-	-	ON	-	
6-52			-	-	ON	ON	
6-52			-	ON	-	-	
6-52	10.4	200	-	ON	-	ON	
6-52	13.0	250	-	ON	ON	-	
6-52	15.6	300	-	ON	ON	ON	
6-52	18.2	350	ON	-	-	-	
6-52	20.8	400	ON	-	-	ON	
6-52	23.4	450	ON	-	ON	-	
6-49	24.5	500	ON	-	ON	ON	
6-49	27.0	550	ON	ON	-	-	
6-46	27.6	600	ON	ON	-	ON	
6-44	27.3	650	ON	ON	ON	-	
6-42	28	700	ON	ON	ON	ON	

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Output Voltage (V)