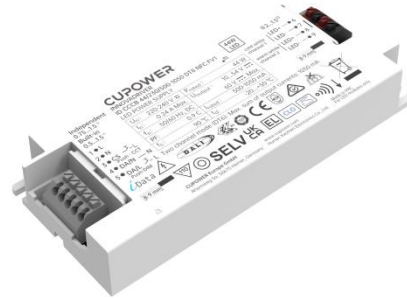


Product features



- Isolated adjustable power color temperature LED driver
- Supports DALI-2, push DIM control , push CCT control
- Usable as DT6 (2-channel) or DT8 (tunable white) driver
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 500...1050 mA
- Max. output power 44 W
- DC emergency
- Flicker-free
- Current output default value 100%
- For luminaires with protection class I, II
- Anti-glow



Product specifications

680009 ID CCCB 44/230/500-1050 DT8 NFC FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
500 ...1050 mA	220...240 Vac 220...240 Vdc	10...54 Vdc	89%	± 5%	0.9 (Output Power > 17 W)	135.0 x 56.5 x 21.0

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz
Performance / Operational safety	47...63 Hz
Max. input current	0.24 A @ 230 Vac & 0.24 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...276 Vdc; operational safety range

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 per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	< 10%
--	-------

Output data

Output current tolerance	± 5% at rated input voltage performance range
No load output voltage	≤ 60 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	Dimming level, CCT level (Programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 60 V
Overpower protection	The output power is less than or equal to 50 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	≤ 0.30 W
Dimming mode	DALI-2, push dimming, push CCT dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100% (3...1050 mA)

Connection terminals

Connection terminal type	45° Push in terminal
Wire cross section mains input	Built-in: 0.5...1.5 mm² stranded and solid-core; Independent: 0.75...1.5 mm² stranded and solid-core
Wire cross section control input	Built-in: 0.5...1.5 mm² stranded and solid-core ; Independent: 0.75...1.5 mm² stranded and solid-core
Wire cross section output	0.2...1.5 mm² stranded and solid-core
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
-------------------	------

Operating data

Output current range (DT8)	NFC control adjusts the current: 500...1050 mA
Output current range (DT6)	NFC control adjusts the current: 300...750 mA per channel Max sum of output current: 1050 mA
Default current	500 mA (DT8)
Output voltage range	10...54 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 6.26 A			Inrush current T _{width} : 35 µs	
	MCB type	B10	C10	B16	C16
	Units	37	37	59	59

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 (0.2% / 1,000 h failure rate)
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1:2021	GB 17625.1-2022	AS/NZS IEC 61347.2.13:2018
EN 61347-2-13:2014/A1:2017	GB/T 17743-2021	AS/NZS 61347.1:2016
EN 62384:2020	GB 19510.1-2023	
EN 300 330 V2.11:2017	GB 19510.14-2023	
EN 62479:2010		
EN 50663:2017		
EN 301 489-1 V2.2.3:2019		
EN 301 489-3 V2.3.2:2023		
EN 55015:2019/A11:2020		
EN 61547:2009		
EN 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		
EN 62493:2015/A1:2022		

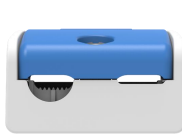
BIS

IS 15885 (Part 2/Sec13):2012+A1:2015
S15885 (Part1):2011+A1:2015

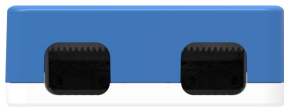
DALI-2 Acc. to EN 62386

Acc. to IEC 62386-101:Ed2
Acc. to IEC 62386-102:Ed2
Acc. to IEC 62386-207:Ed1
Acc. to IEC 62386-209:Ed1
Acc. to IEC 62386-251:Ed2
Acc. to IEC 62386-252:Ed2
Acc. to IEC 62386-253:Ed2

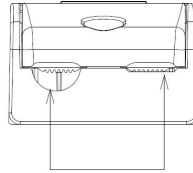
Accessories (optional)



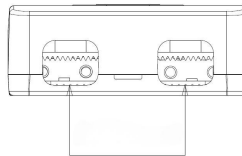
Art 161195 XZ-ID-C



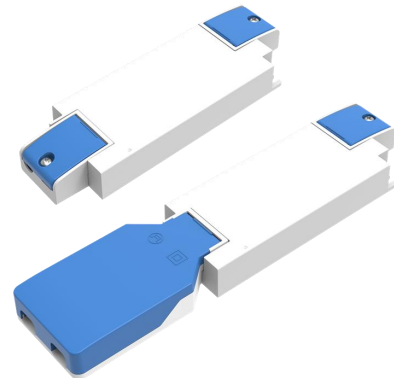
Art 161201 XZ-ID-LOOP-C



Ø2-Ø8 mm



Ø2-Ø9 mm



Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-C	39.0	33.0	21.0
XZ-ID-LOOP-C	105.0	56.5	21.0
Driver incl. 2 x XZ-ID-C	177.0	56.5	21.0
Driver incl. XZ-ID-C + XZ-ID-LOOP-C	242.8	56.5	21.0

Dimensions

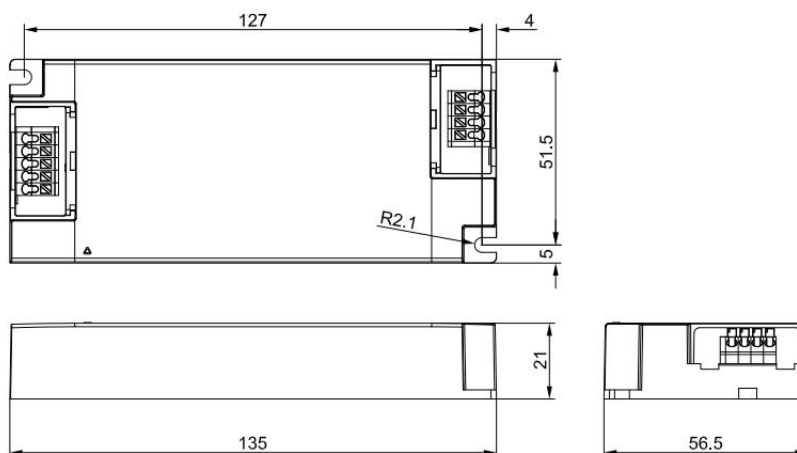
Housing dimensions

Length (L)	135.0 mm
Width (W)	56.5 mm
Height (H)	21.0 mm

For all dimensions: values in mm; tolerances: ± 0.5 mm

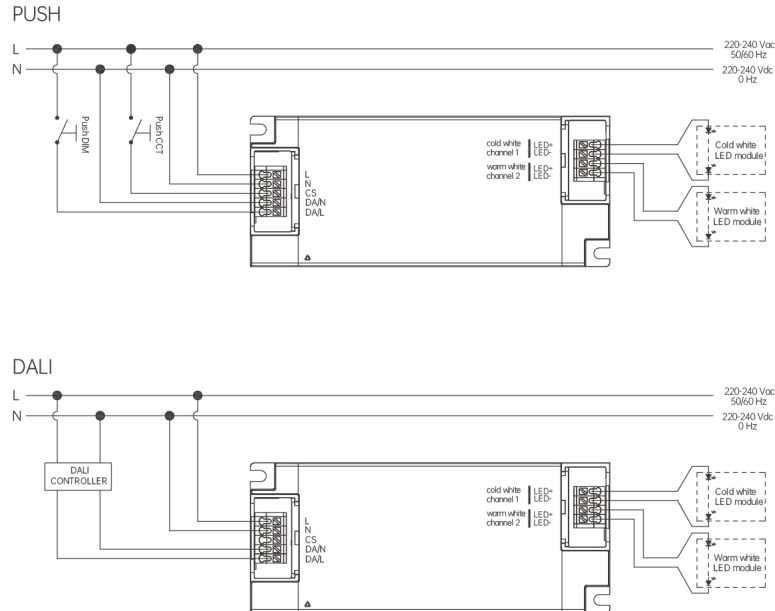
Packaging details

Packing units	24 pcs
Carton size	280 x 179.5 x 114 mm
Carton Weight	4 kg
Product weight	0.14 kg



Recommended mounting screw type M4

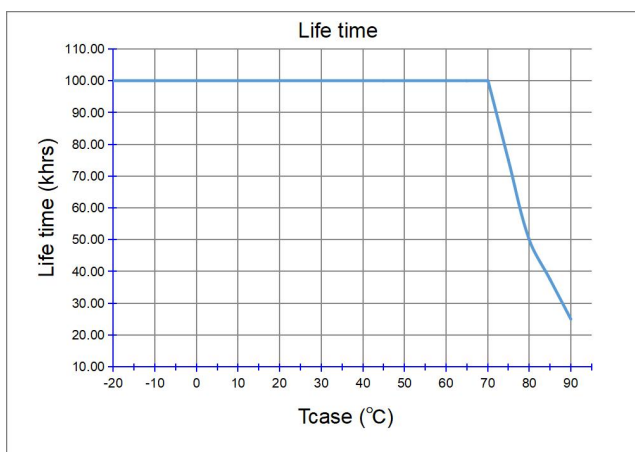
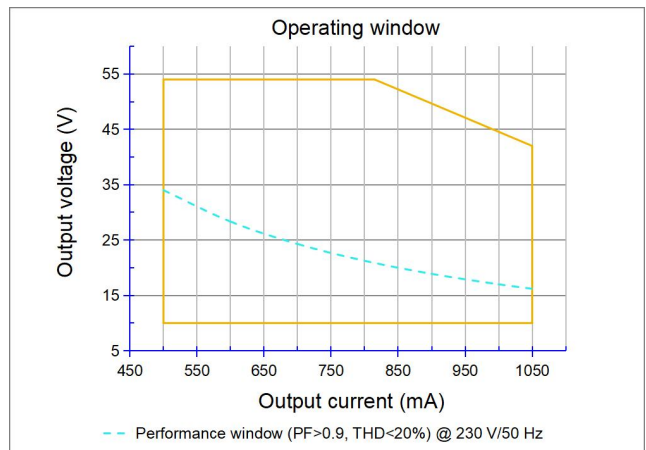
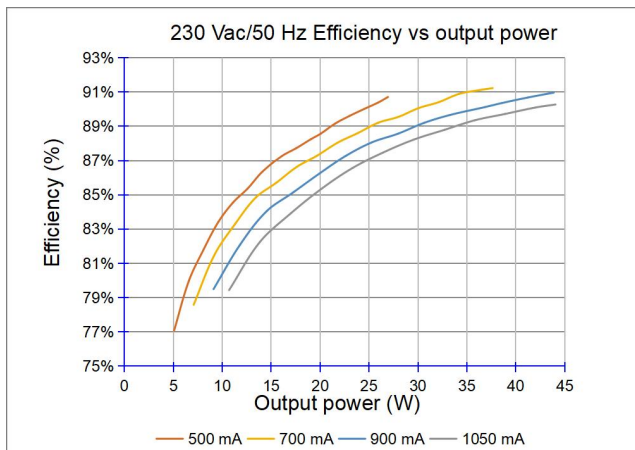
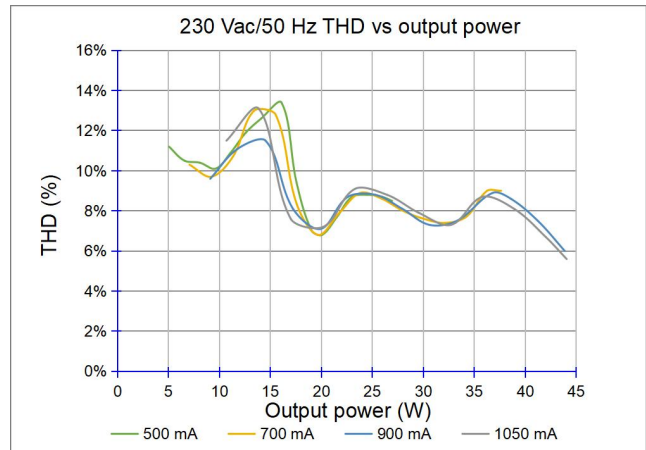
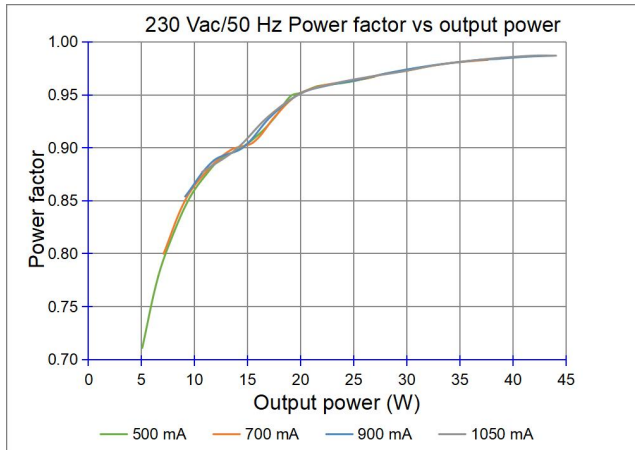
Wiring diagram



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. 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.
- The recommended NFC communication distance: 5...20 mm.
- Before adjusting the color temperature, connect the driver to a PUSH DIM button and press it for >1 s to enter PUSH mode. Then adjust using the Colour Switch.
- For the PUSH DIM instruction manual, please refer to the link: [CUPOWER PUSH DIM Manual](#)
- For the Corridor Function instruction manual, please refer to the link: [CUPOWER Corridor Function Manual](#)

Technical information



at Tc 80°C(0.2% / 1,000 h failure rate)

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 44 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	814 mA	43.95
50	880 mA	44
44	1000 mA	44
42	1050 mA	44