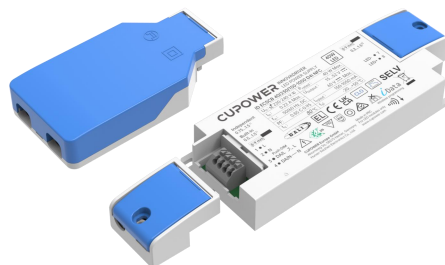




Product features

- Built-in isolated adjustable power LED driver
- Supports DALI-2 D4i (part 250, 251, 252, 253)
- Current adjustment via NFC
- Flicker free LED driver
- Output current 150...1050 mA
- Max. output power 40 W
- Constant lumen output (CLO)
- DC emergency
- Current output default value 600 mA
- For luminaires with protection class I, II
- 5 years warranty



Product specifications

167883 ID ECSCB 40/230/150-1050 D4i NFC N

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150...1050 mA	220...240 Vac 220...240 Vdc	15...52 Vdc	92%	± 5%	0.9 (Output power > 15 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	0.22 A @ 230 Vac & 0.22 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: 3.75 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 IEC61000-4-5

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	≤ 60 Vdc
Ripple output current	≤ 3% (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% (other values can be programmed)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 60 Vdc
Overpower protection	The output power is less than or equal to 44 W
Short circuit protection	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	< 0.3 W
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Integrated DALI bus power supply

Output current	52 mA (max.60 mA)
Output voltage	16 Vdc

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm ² ; output wire: 0.2...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	NFC control adjusts the current: 150...1050 mA
Default current	150 mA
Output voltage range	15...52 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 24 A			Inrush current T _{width} : 150 µs	
	MCB type	B10	C10	B16	C16
	Units	29	41	47	66

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.
- External NTC are supported for temperature protection of the LED module or luminaire.
- Mind the polarity of the DALI lines. DA+ to DA+, DA- to DA- only.
- The luminaire manufacturer must ensure that condensation water cannot be created within the fixture.

Environmental specifications

Operating temperature	-40...+50°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 80°C: 50,000 hrs; at Tc 70°C: 100,000 hrs @ 230 Vac
Maximum Tc temperature	80°C

Safety & EMC compliance

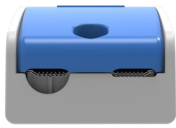
ENEC+CE
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020
EN IEC 55015:2019/A11:2020
EN IEC 61547:2023
EN IEC 61000-3-2:2019/A2:2024
EN 61000-3-3:2013/A2:2021
EN 300 330 V2.1.1:2017
EN 62479:2010
EN 50663:2017
EN 301 489-1 V2.2.3:2019
EN 301 489-3 V2.3.2:2023
EN 62493:2015/A1:2022

CCC

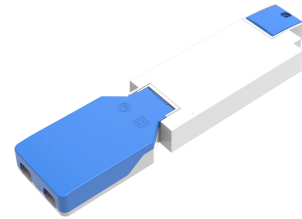
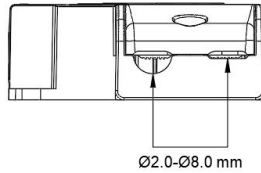
SAA
AS 61347.2.13
AS/NZS 61347.1:2016+A1

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 62386-251:Ed2
Acc. to IEC 62386-252:Ed2
Acc. to IEC 62386-253:Ed2

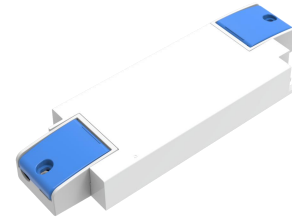
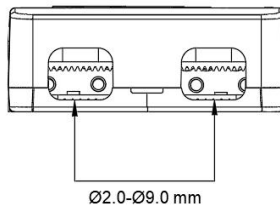
Accessories (optional)



Art. 161195 XZ-ID-C



Art. 161201 XZ-ID-LOOP-C



Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-C	39	33	21
XZ-ID-LOOP-C	105	56.5	21
Driver incl. 2 x XZ-ID-C	178	56.5	21
Driver incl. XZ-ID-C + XZ-ID-LOOP-C	242.8	56.5	21

Dimensions

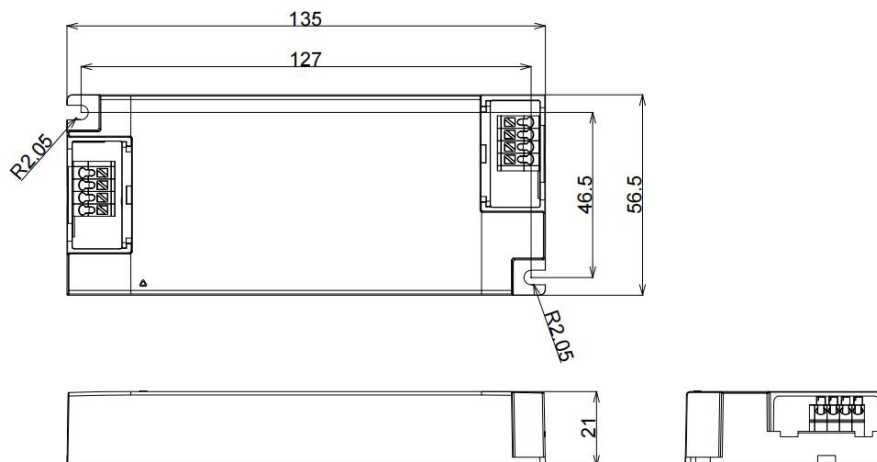
Housing dimensions

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

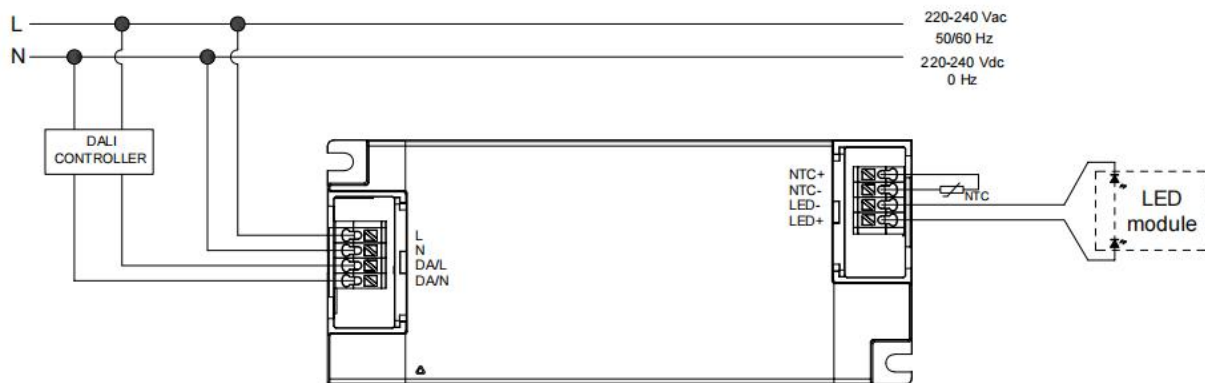
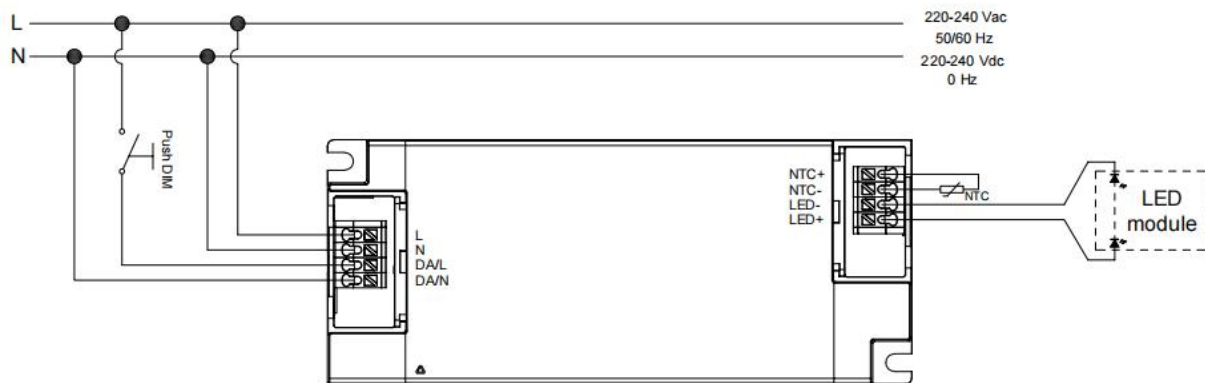
Packaging details

Packing units	24 pcs
Carton size	280 × 179.5 × 114 mm
Carton weight	3.72 kg
Product weight	0.13 kg



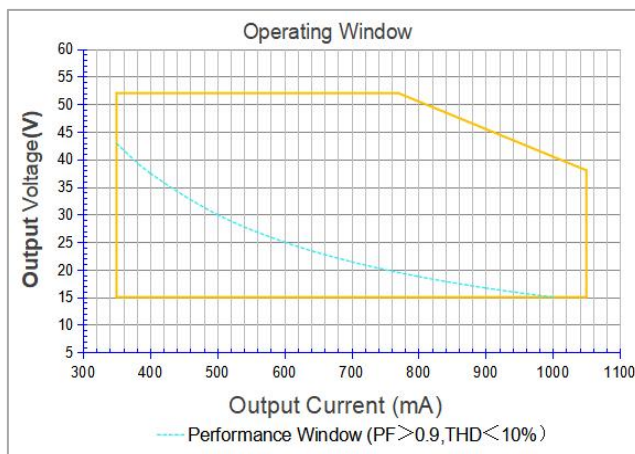
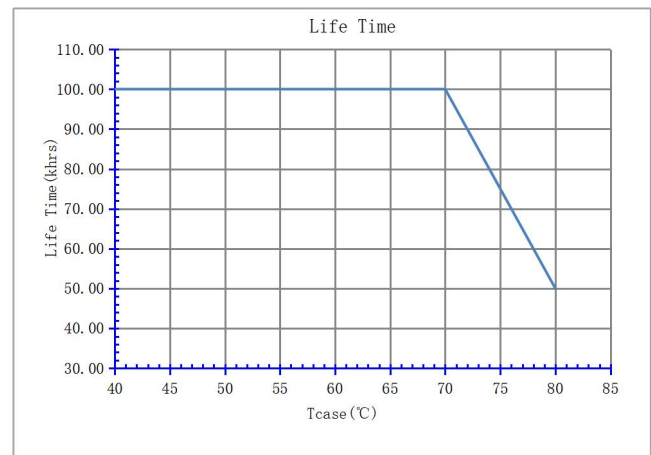
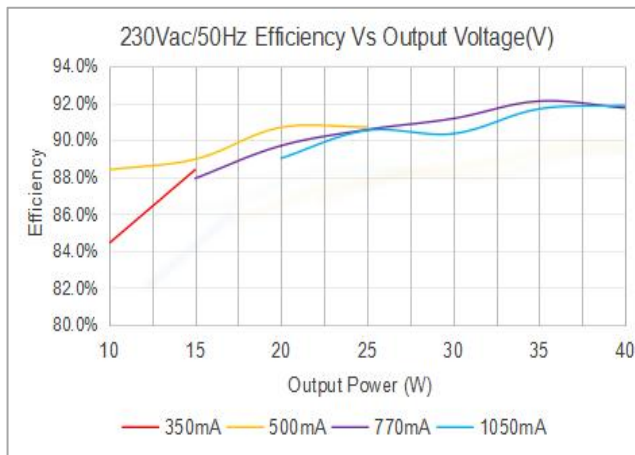
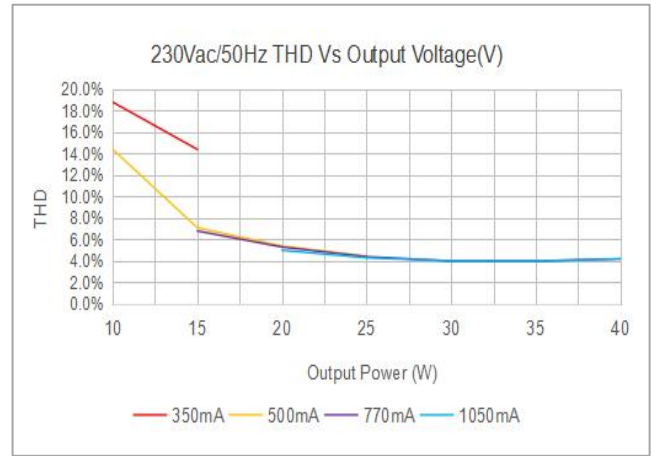
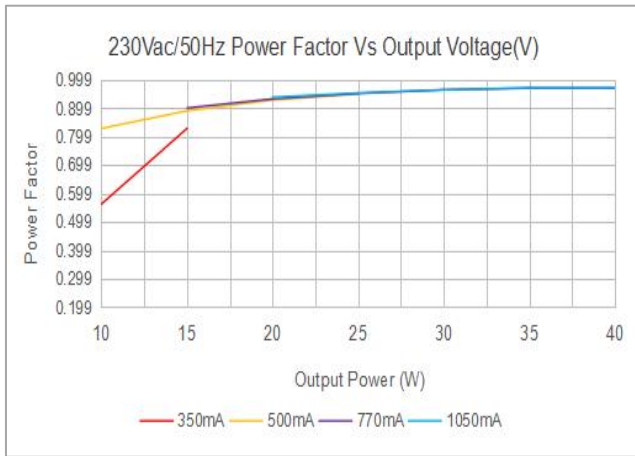
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Wiring diagram



- 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 circuit.
- When using the PUSH dimming function, the Integrated DALI bus power supply function needs to be turned off.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 40 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	350 mA	18.2
52	500 mA	26
52	770 mA	40
38	1050 mA	40