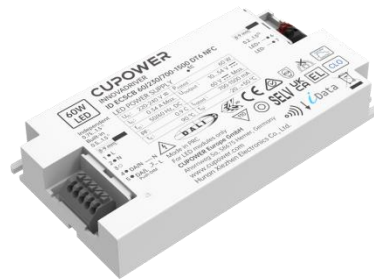


Product features

- 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 700...1500 mA
- Max. output power 60 W
- DC emergency
- Flicker-free
- For luminaires with IEC protection class I, II
- Anti-glow



Product specifications

168941 ID ECSCB 60/230/700-1500 DT6 NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
700 ...1500 mA	220...240 Vac 220...240 Vdc	10...54 Vdc	90% (@ 54 V 1100 mA)	± 5%	0.9 (@ 26...60 W)	135 x 70 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	0.34 A @ 230 Vac

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 per IEC 61000-4-5
Control interface surge immunity	DA - DA, CS / N, 1 kV per IEC 61000-4-5

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 performance range
No load output voltage (OCV)	≤ 60 Vdc
Ripple output current	5% (ripple = peak/average total 100Hz)
Output PstLM	≤ 1 in entire operating window @ at rated input voltage performance range
Output SVM	≤ 0.4 in entire operating window @ at rated input voltage performance range
DC emergency level	15% default (programmable range: 1%...100 %)
Startup time	Max. 0.66 s

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 66 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 @ 230V / 50 Hz
Dimming mode	DALI-2
Dimming method	Amplitude dimming
Dimming current range	1%...100%; abs. minimum output current: 7 mA

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section mains input	Built-in: 0.5...1.5 mm ² Independent; 0.75...1.5 mm ² stranded and solid-core
Wire cross section control input	Built-in: 0.5...1.5 mm ² Independent; 0.75...1.5 mm ² stranded and solid-core
Wire cross section output	0.5...1.5 mm ² stranded and solid-core
Wire cross section (XZ-ID-LOOP-C)	0.5...2.5 mm ² stranded and solid-core
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: 700...1500 mA
Factory default output current	700 mA
Output voltage range	10...54 Vdc
Noise level	< 24 dBA, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 8.04 A			Inrush current T _{width} : 50 μs	
	MCB type	B10	C10	B16	C16
	Units	23	23	37	37

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	90°C

Safety, EMC & performance compliance

ENEC+CE
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 301 489-3 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

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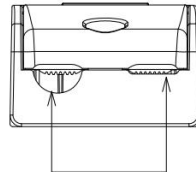
SAA
AS/NZS IEC 61347.2.13:2013
AS/NZS 61347.1:2016

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)



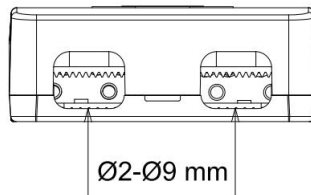
Art 161195 XZ-ID-C



Ø2-Ø8 mm



Art 161201 XZ-ID-LOOP-C



Ø2-Ø9 mm



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	177	70	21
Driver incl. XZ-ID-C + XZ-ID-LOOP-C	242.8	70	21

Dimensions

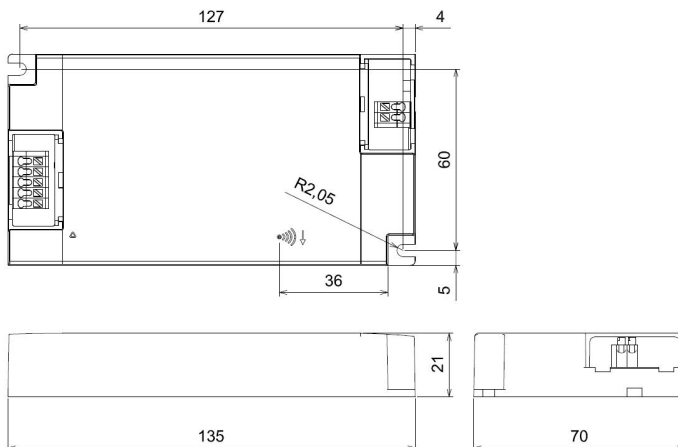
Housing dimensions

Length (L)	135 mm
Width (W)	70 mm
Height (H)	21 mm

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

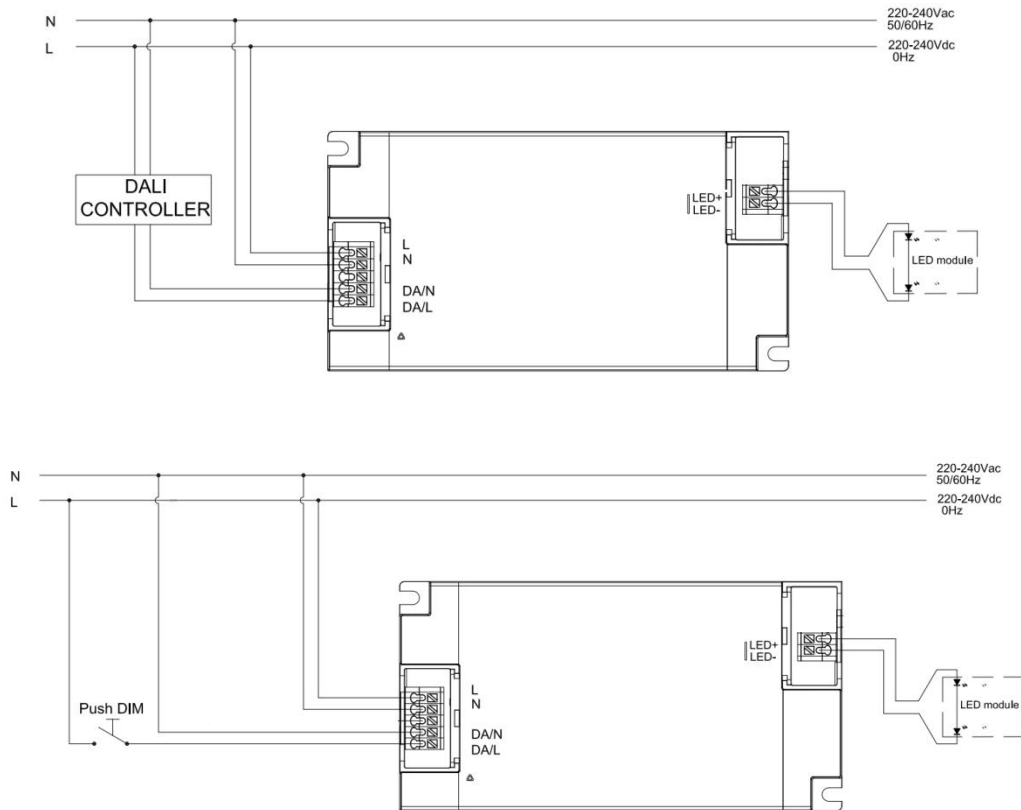
Packaging details

Packing units	24 pcs
Carton size	280 x 220 x 114 mm
Weight	5.88 kg
Product weight	0.22 kg



Unit: mm
Recommended mounting screw type M4

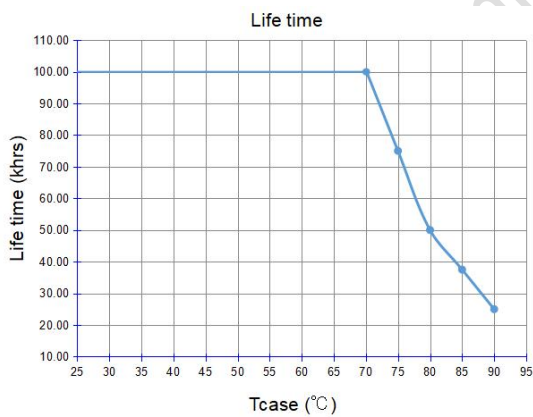
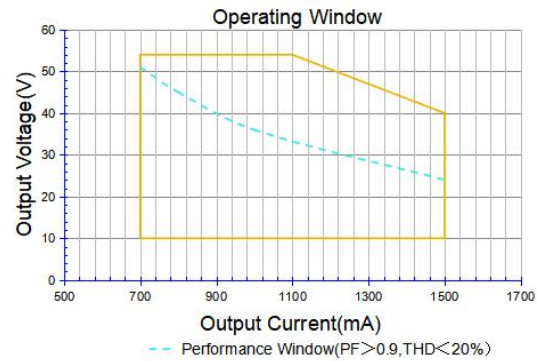
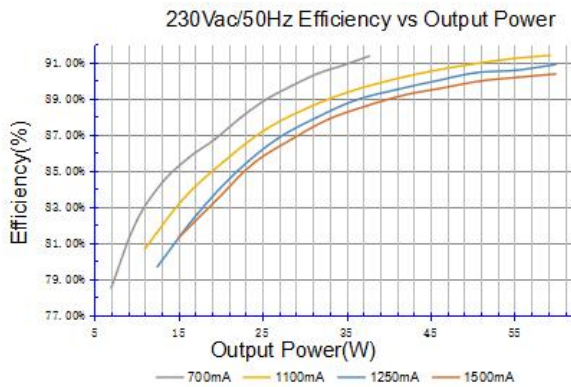
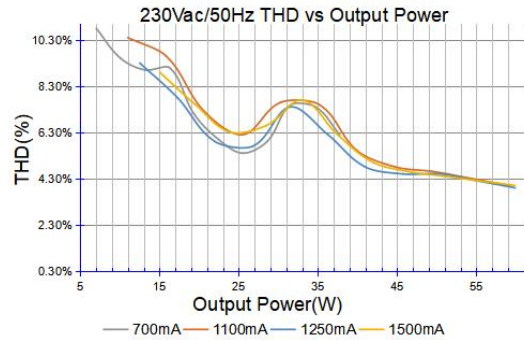
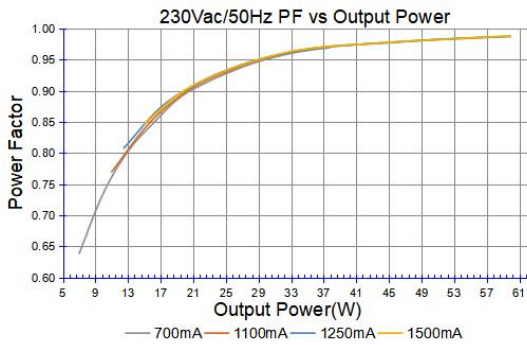
Wiring diagram



Push DIM instruction manual please refer to the link: [CUPOWER_PUSH_DIM_MANUAL_2024_03](#)

- 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 LED.
- The wire must be well protected against short circuit.
- For Push dim function, the driver can be derived from another phase.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 60 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	P out (W)
54	700 mA	37.8
54	1100 mA	59.4
48	1250 mA	60
40	1500 mA	60