

Product features

- Isolated adjustable power color temperature LED driver
- Flicker-free LED driver
- Supports DALI-2, push dimming, push CCT control
- Usable as DT6 (2-channel) or DT8 (tunable white) driver
- Current adjustment via NFC
- Output current 150...500 mA
- Max. output power 20 W
- DC emergency : Current output default value 100%
- For luminaires with IEC protection class I,II
- 5 years warranty



Product specifications

160853 ID CCCB 20/230/150-500 DT8 NFC FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150 mA	220...240 Vac	10...48 Vdc	76%	± 5%	0.9	109.0 x 43.0 x 21.0
250 mA		10...48 Vdc	80%			
350 mA		10...48 Vdc	85%			
500 mA		10...40 Vdc	84%			

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	0.12 A @ 230 Vac

Protection against voltage peaks

Withstand voltage	I/p-O/p: 3.75 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%
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Output data

Output current tolerance	± 5% at rated input voltage 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

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 22 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

Dimming range	1%...100%
Standby power consumption	< 0.5 W

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section 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	7...8 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range (DT8)	NFC control adjusts the current: 150...500 mA
Maximum output current (DT6)	NFC control adjusts the current: 150...350 mA per channel Max sum of output current: 500 mA
Default current	150 mA
Output voltage range	10...48 Vdc
Noise level	< 20dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 4.5 A		Inrush current Twidth: 38 µs		
	MCB type	B10	C10	B16	C16
	Units	77	77	123	123

Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-40...+80°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	CCC	SAA
EN 61347-1:2015/A1:2021	GB/T17743-2021	AS 61347.2.13:2018
EN 61347-2-13:2014/A:2017	GB 19510.1-2009	AS/NZS 61347.1:2016+A1
EN IEC 62384:2020	GB 19510.14-2009	
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 V2.1.1:2019		
EN IEC 55015:2019/A11:2020		
EN 61547:2009		
EN IEC 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		
EN 61347-1:2015/A1:2021		
EN 61347-1-2-13:2014/A1:2017		
EN 62493:2015		

Dimensions

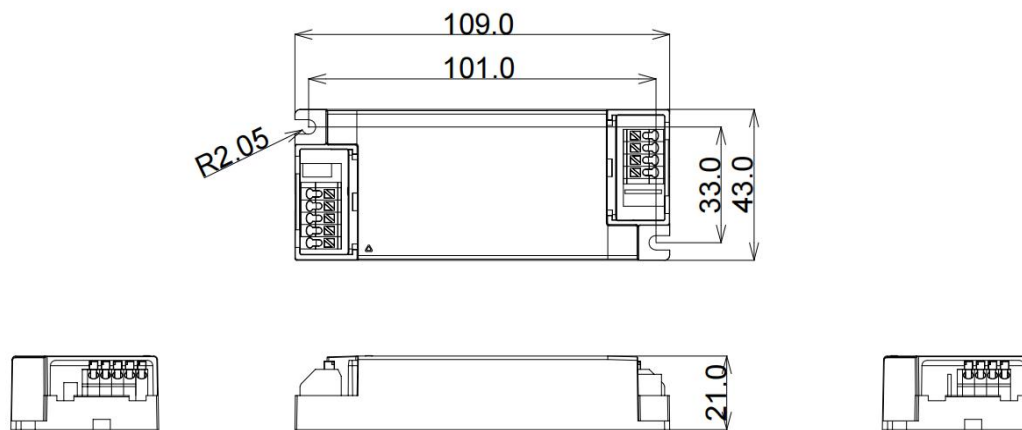
Housing dimensions

Length (L)	109.0 mm
Width (W)	43.0 mm
Height (H)	21.0 mm

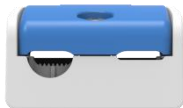
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

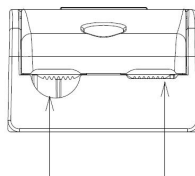
Packing units	24 pcs
Carton size	226 x 144 x 100 mm
Carton weight	2.5 kg
Product weight	0.079 kg



Accessories (optional)



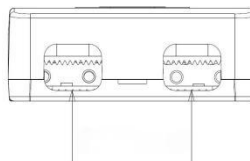
Art. 161195 XZ-ID-C



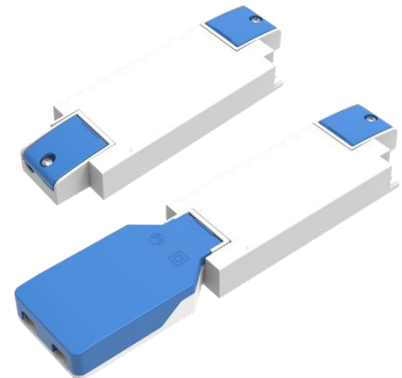
Ø2-Ø8 mm



Art. 161201 XZ-ID-LOOP-C

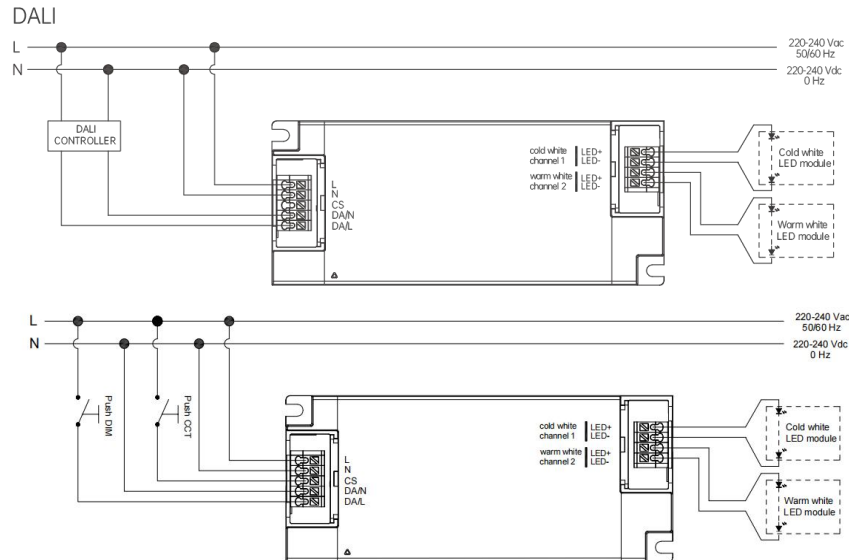


Ø2-Ø9 mm



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	151	43	21
Driver incl. XZ-ID-C + XZ-ID-LOOP-C	217.5	56.5	21

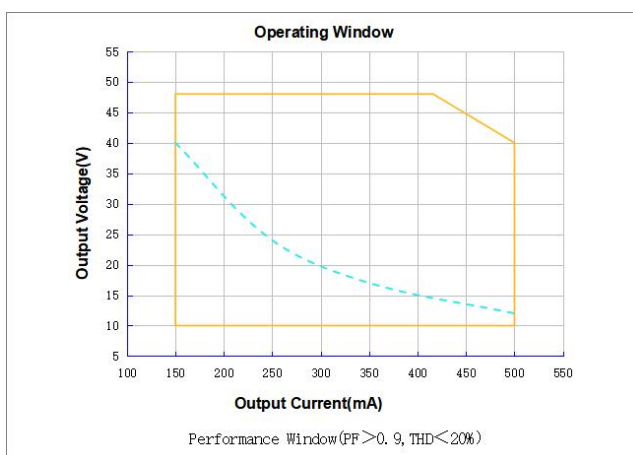
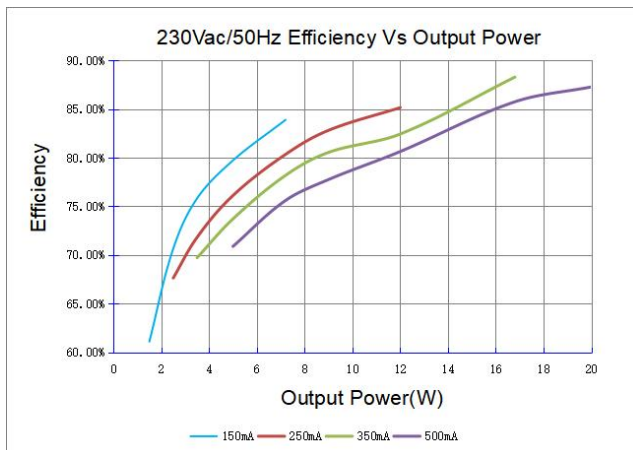
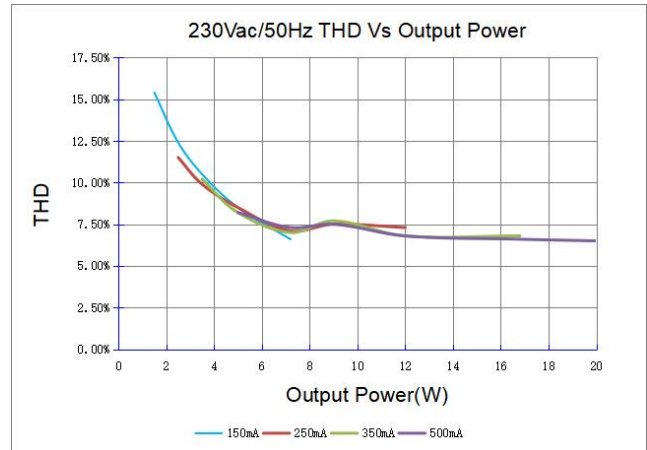
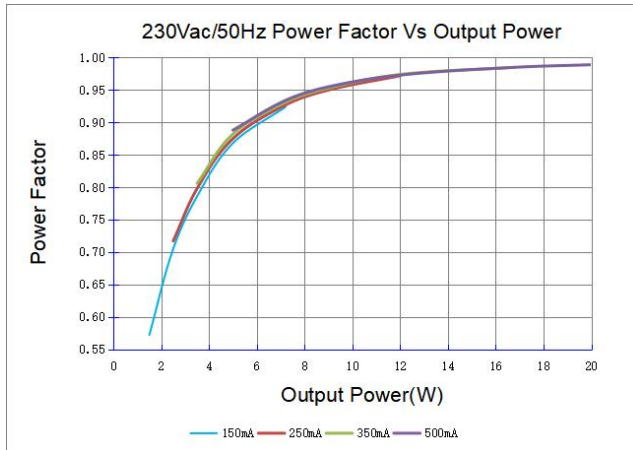
Wiring diagram



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.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.
- 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.
- 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-DT8

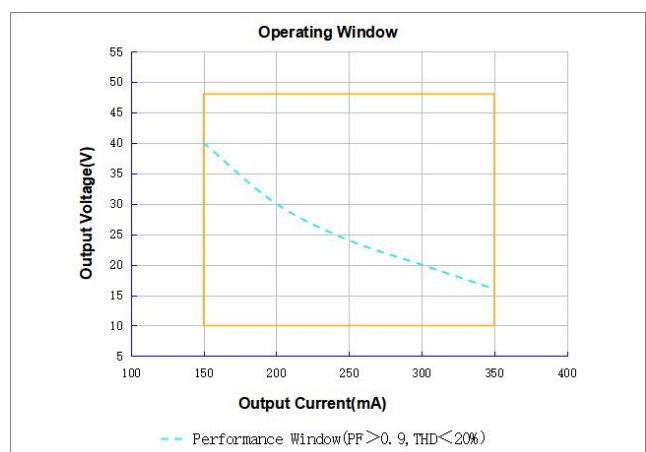
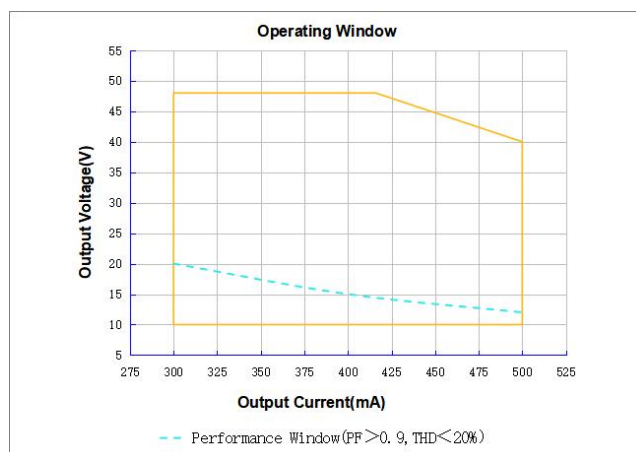
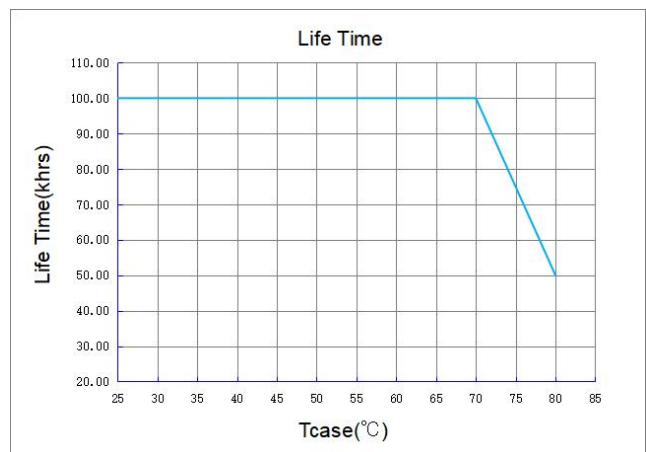
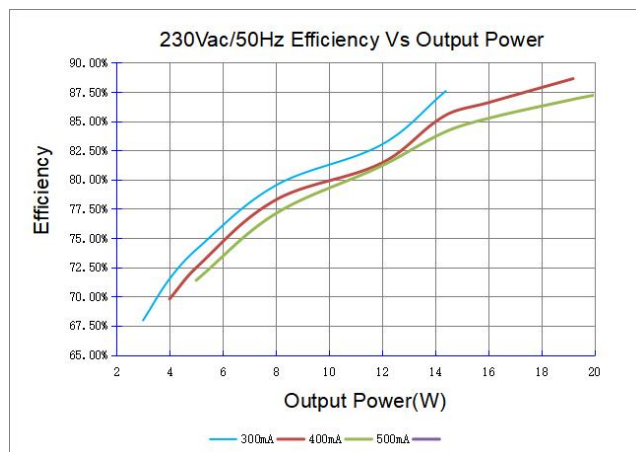
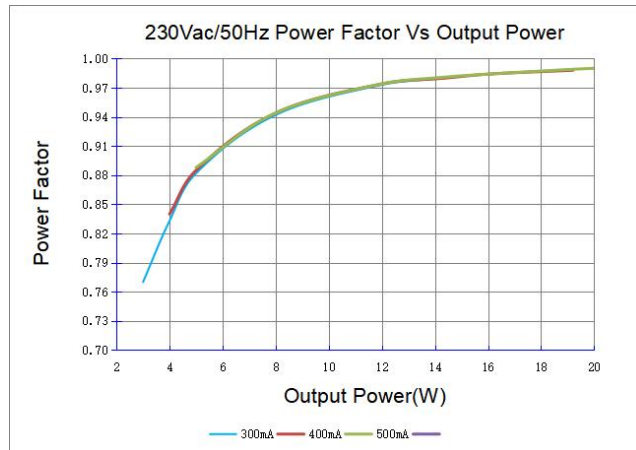


It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 20 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
48	150 mA	7.2
48	250 mA	12
48	350 mA	16.8
40	500 mA	20

Technical information-DT6



- DT6 independent outputs mode: Max sum of output current: 500 mA.
- It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 20 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
48	300 mA	14.4
48	400 mA	19.2
40	500 mA	20