

Product features

- Flicker-free LED driver
- Supports DALI-2, push DIM, push CCT control
- Usable as DT6 (2-channel) or DT8 (tunable white) driver
- Current adjustment via NFC
- Output current 100...900 mA
- Max. output power 110 W
- DC emergency
- Current output default value 100%
- For luminaires with protection class I



Product specifications

161096 ID ELNCB 110/230/100-900 DT8 NFC

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
100...900 mA	220...240 Vac 220...240 Vdc	50...240 Vdc	93%	± 5%	0.9 (@ 35...110 W)	405x30x16

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	0.6 A @ 230 Vac

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...278 Vdc

Protection against voltage peaks

Withstand voltage	l/p-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	20%
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Output data

Output current tolerance	± 5% at rated input voltage range
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	DALI current output decreased to 15% (programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 250 V
Overpower protection	The output power is less than or equal to 122 W
Short circuit protection	<p>Short circuit protection is designed to turn off the output and cannot be automatically restored. After removing the short circuit, the output can be restored by one of the following two operations:</p> <ul style="list-style-type: none"> • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.
No load output voltage	<p>Open circuit protection is designed to turn off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations:</p> <ul style="list-style-type: none"> • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.

Dimming operation and interface

Standby power consumption	≤ 0.3 W
Dimming mode	DALI-2, Push dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100%

Connection terminals

Connection terminal type	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 (DT8)	NFC control adjusts the current: 100...900 mA
Output current range (DT6)	NFC control adjusts the current: 50...900 mA per channel Max sum of output current: 1500 mA
Default current	100 mA
Output voltage range	50...240 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 29.4 A			Inrush current T _{width} : 300 μs	
	MCB type	B10	C10	B16	C16
	Units	7	12	11	19

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	-25...+55°C
Storage temperature	-40...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 50,000 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 62384:2020
EN 300 330 V2.11:2017
EN 62479:2010
EN 50663:2017
EN 301 489-1 V2.2.3:2019
EN 301 489-3V2.3.2:2023
EN 55015:2019/A11:2020
EN 61547:2023
EN 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014/A1:2017

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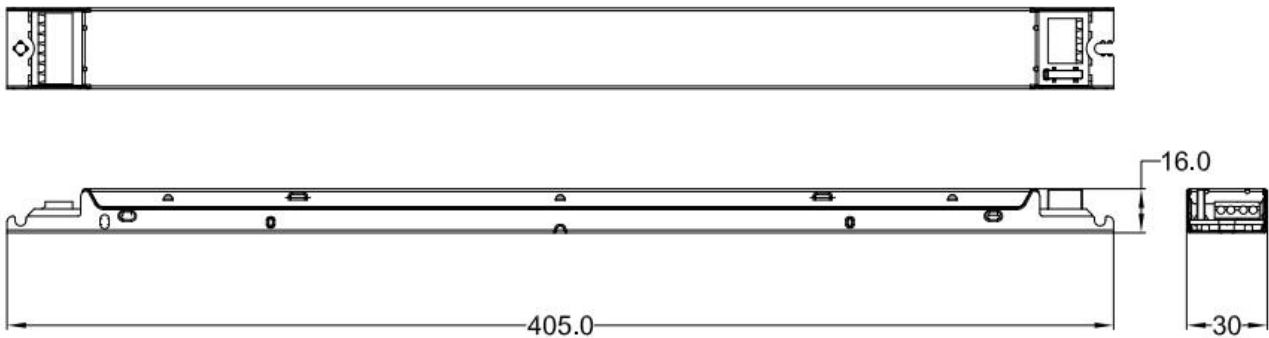
Dimensions

Housing dimensions

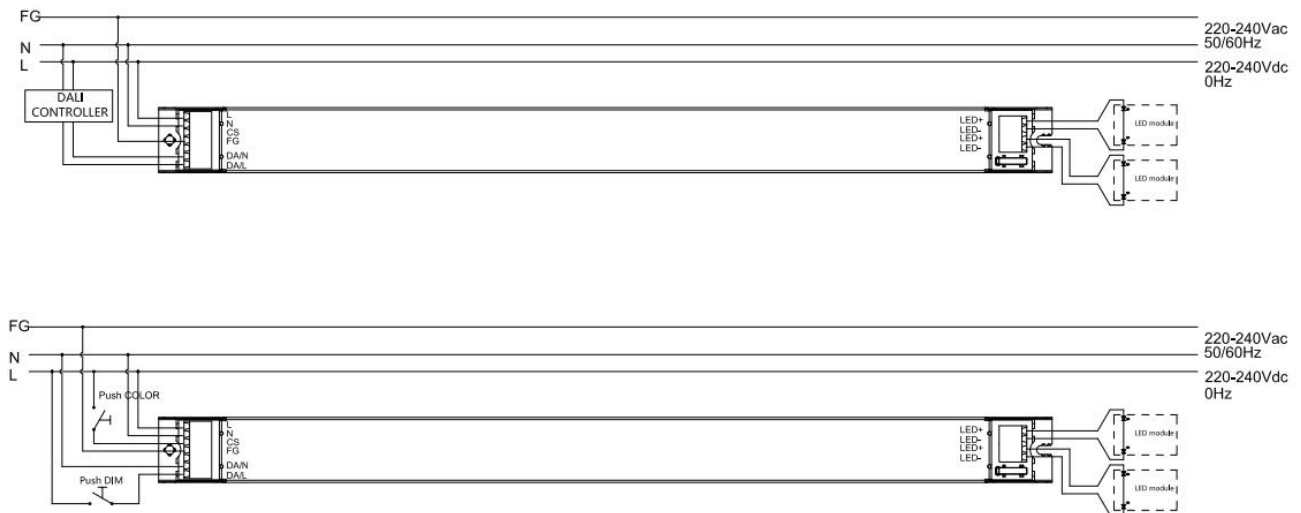
Length (L)	405 mm
Width (W)	30 mm
Height (H)	16 mm
Weight	0.28 kg

Packaging details

Packing units	20 pcs
Carton size	426 x 128 x 102 mm
Weight	6.5 kg

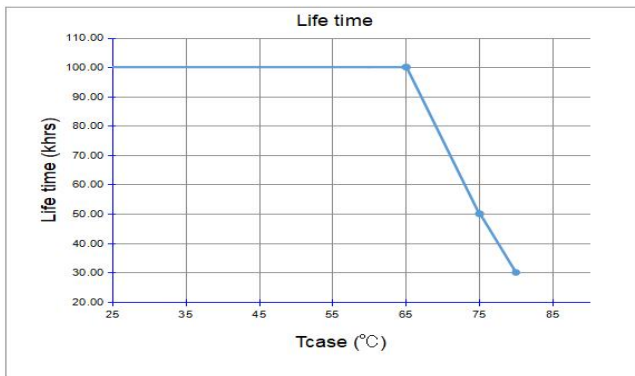
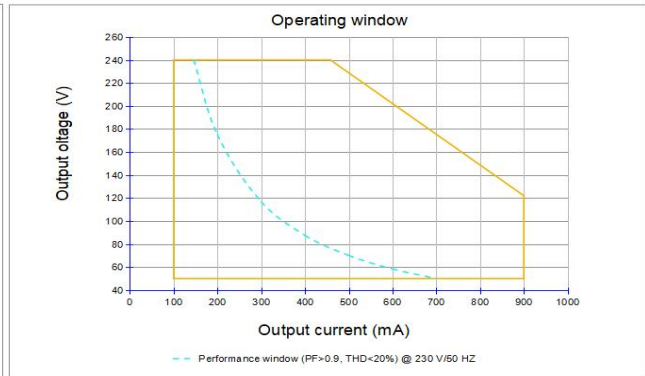
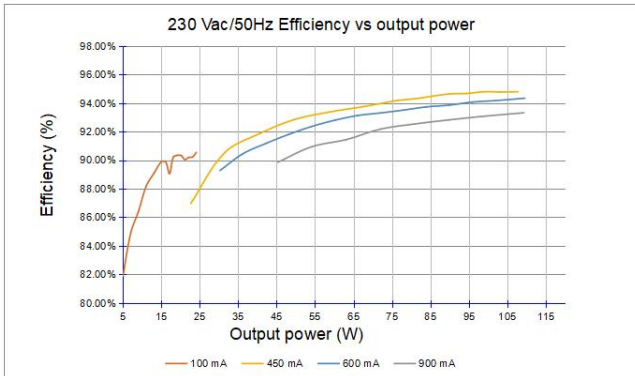
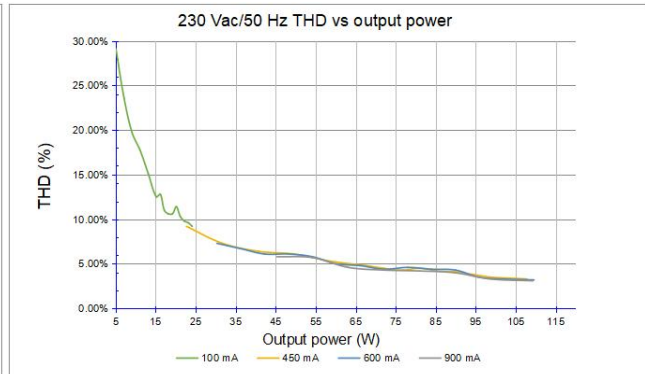
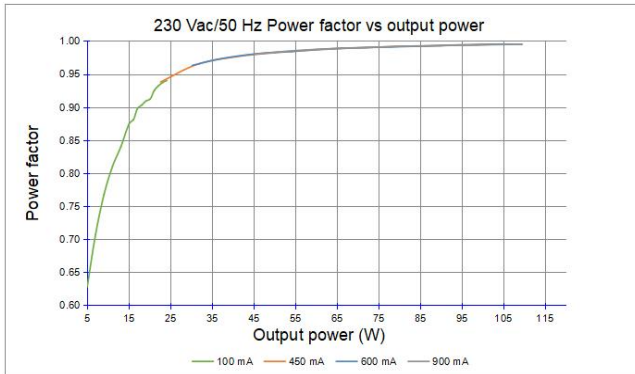


Wiring diagram



- 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 circuits.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 110 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
240	100 mA	24
240	300 mA	72
220	500 mA	110
122	900 mA	109.8