

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
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 100...900 mA
- Max. output power 110 W
- DC emergency
- Current output default value 100%
- For luminaires with protection class I
- Anti-glow



Product specifications

165094 ID ELNCB 110/230/100-900 DT8 NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
100...900 mA	220...240 Vac 220...240 Vdc	50...240 Vdc	93%	± 5%	0.9 (@ 35...110 W)	405.0 x 29.5 x 16.0

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
Max. input current	0.6 A @ 230 Vac & 0.6 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...278 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 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	≤ 250 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	DALI current output decreased to 15% (programmable)

Protection functions output side

Overpower protection	The output power is less than or equal to 122 W
Short circuit protection	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: • 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.
Overvoltage protection	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: • 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, push CCT dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100% (3...900 mA)

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 (DT8)
Output voltage range	50...240 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 10.8 A			Inrush current T _{width} : 63 µs	
	MCB type	B10	C10	B16	C16
	Units	15	15	24	24

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 (0.2% / 1,000 h failure rate)
Maximum Tc temperature	80°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/T 19510.1-2023	
EN 300 330 V2.11:2017	GB/T 19510.213-2023	
EN 62479:2010		
EN 50663:2017	BIS	
EN 301 489-1 V2.2.3:2019	IS 15885 (Part 2/Sec13):2012+A1:2015	
EN 301 489-3 V2.3.2:2023	S15885 (Part1):2011+A1:2015	
EN 55015:2019/A11:2020		
EN 61547:2023		
EN 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		

Dimensions

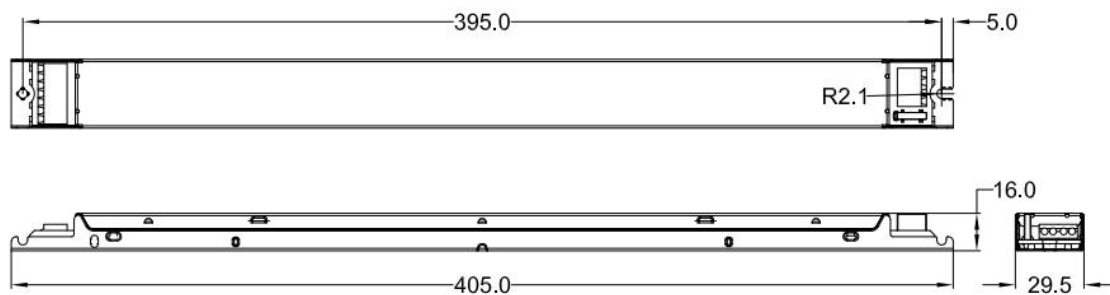
Housing dimensions

Length (L)	405.0 mm
Width (W)	29.5 mm
Height (H)	16.0 mm

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

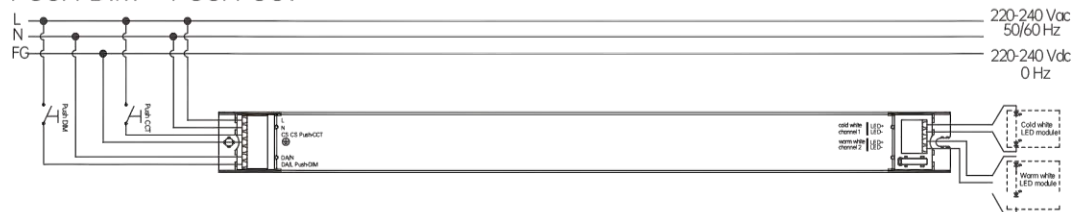
Packaging details

Packing units	20 pcs.
Carton size	426 x 128 x 102 mm
Carton Weight	6.5 kg
Product weight	0.28 kg

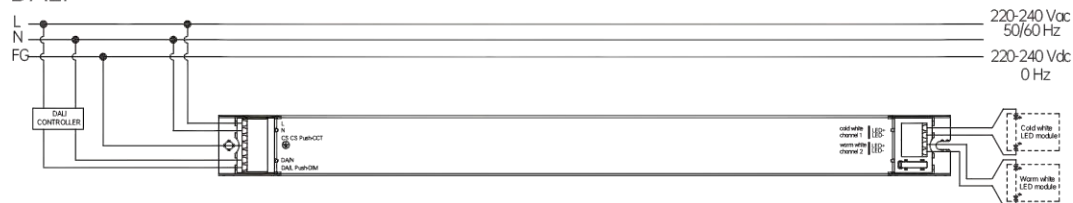


Wiring diagram

PUSH DIM + PUSH CCT



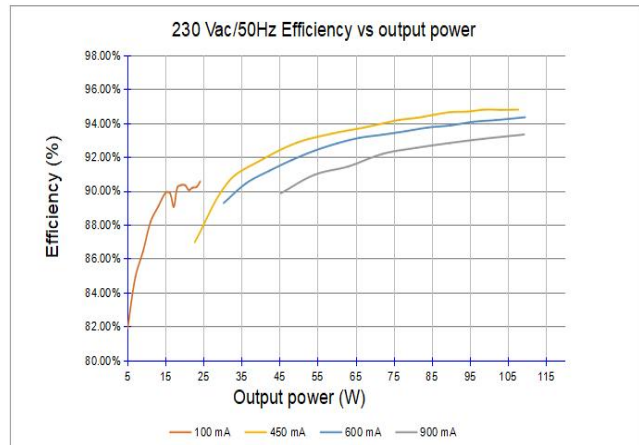
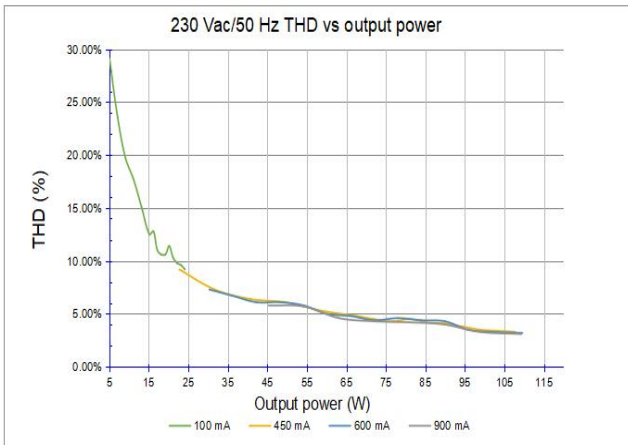
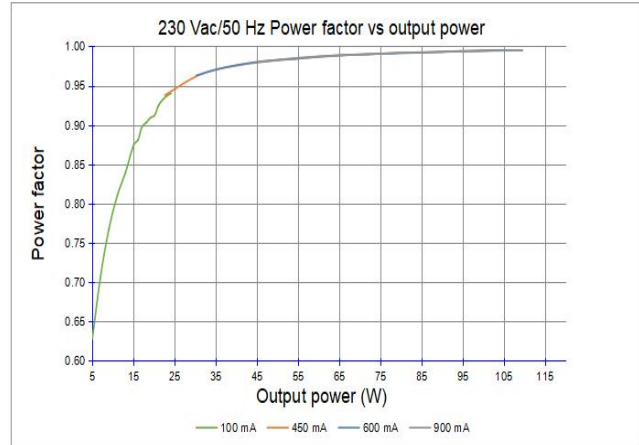
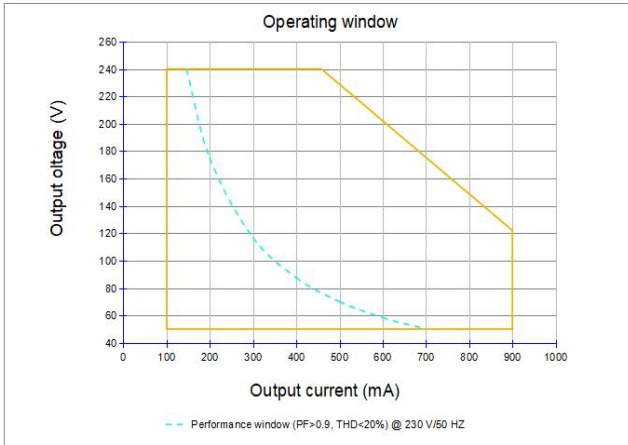
DALI



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 75 °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 110 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
240	458 mA	109.9
220	500 mA	110
183	600 mA	109.8
122	900 mA	109.8