ID ELNCB 110/230/100-900 DT8 NFC

Art. 165094-1

Product features

- Flicker-free LED driver
- Supports DALI-2, push DIM, push CCT control
- Supports two separate push controls @ DT6 (2-channel) independent outputs mode
- 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

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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 30.0 x 16.0

Electrical specifications

Mains voltage supply	
Rated input voltage range	220 … 240 VAC; performance range
Max. input voltage range	198 … 264 VAC; performance 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; performance 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 %

Output data	
Output current tolerance	±5 % at rated input voltage range
No load output voltage	≤ 250 VDC

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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 range: 1 … 100 %)

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
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 mm²; Output wire: 0.2 … 1.5 mm²
Wire stripping length	8 … 9 mm

Degree of protection

Protection rating	IP20

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: 1,500 mA
Default current	100 mA
Output voltage range	50 … 240 VDC

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 10.8 A			Inrush current Twidth: 63 µs	
	MCB type	B10	C10	B16	C16
	Units	15	15	24	24

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Environmental specifications

Operating temperature	-25 … +55 °C
Storage temperature	-40 … +85 °C
Working humidity	10 … 90 %
Storage humidity	5 … 95 %
Lifetime	at Tc 75 °C: 50,000 h @ 230 VAC (0.2 % / 1,000 h failure rate)
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

CCC
GB 17625.1-2022
GB/T 17743-2021
GB/T 19510.1-2023
GB/T 19510.213-2023

BIS
IS 15885 (Part 2/Sec13):2012+A1: 2015
S15885 (Part1):2011+A1:2015

SAA
AS/NZS IEC 61347.2.13.2018
AS/NZS 61347.1:2016

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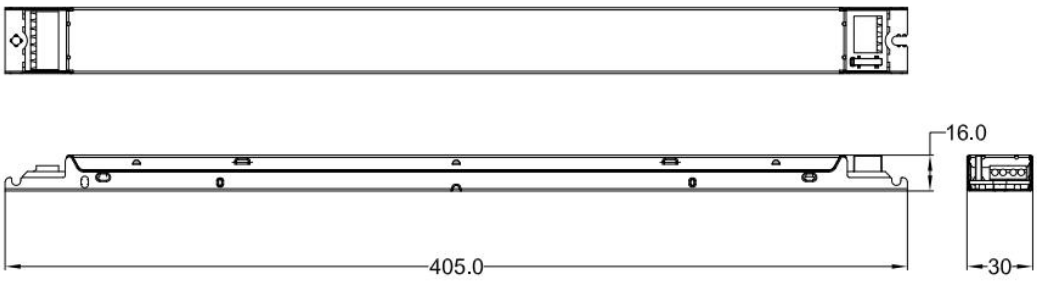
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Dimensions

Housing dimensions	
Length (L)	405.0 mm
Width (W)	30.0 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



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.
- In DT6 (2-channel) independent outputs mode, push dim and push color can control two outputs respectively, push dim control channel 1 (cold white), push color control channel 2 (warm white).
- 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

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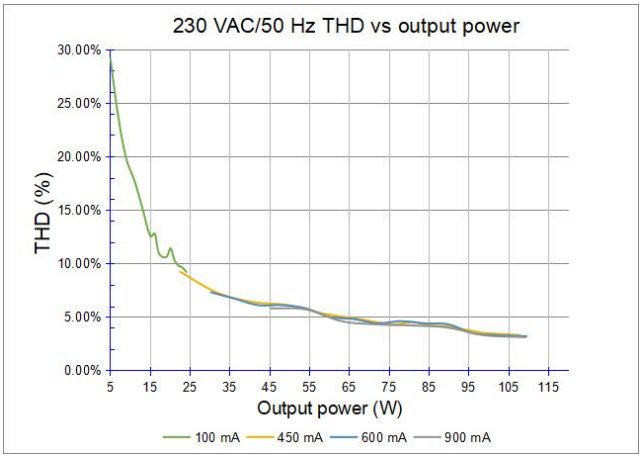
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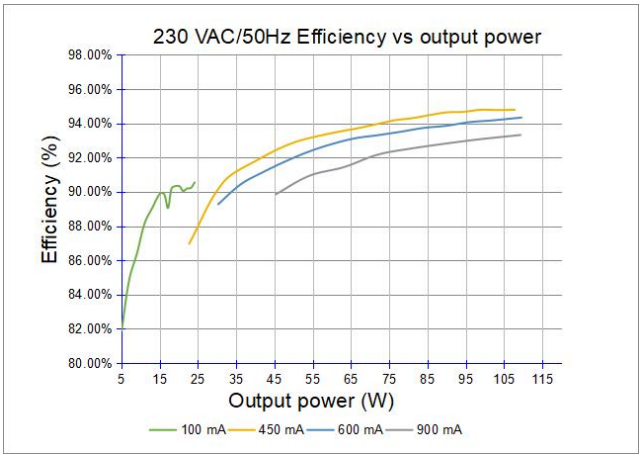
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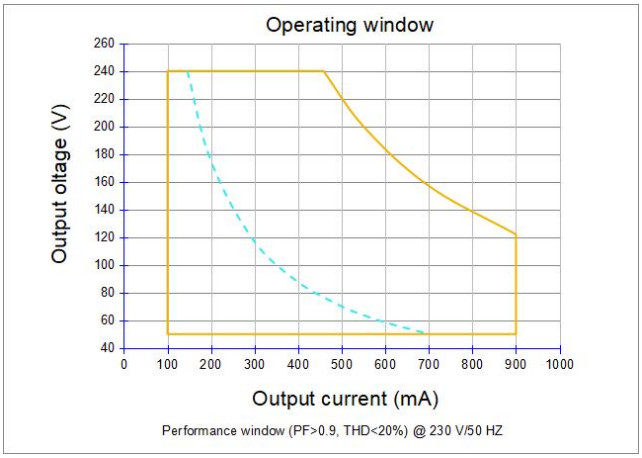
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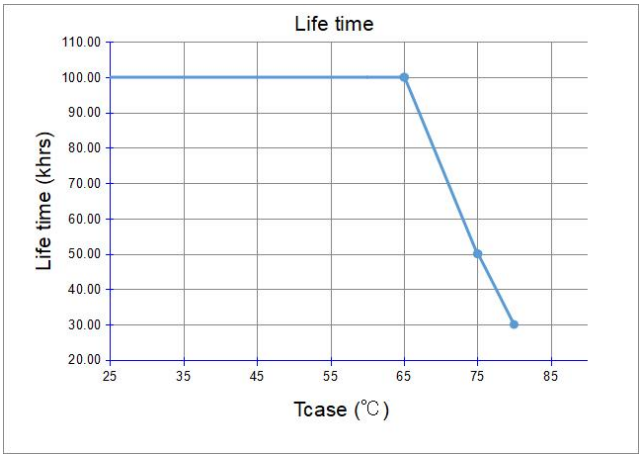
Technical information











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	100 mA	24
240	300 mA	72
220	500 mA	110
122	900 mA	109.8

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