ID ELNCB 75/230/150-700 DT8 NFC

Art. 165070

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 150 … 700 mA
- Max. output power 75 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)
150 … 700 mA	220 … 240 VAC 220 … 240 VDC	50 … 240 VDC	92 %	±5 %	0.9 (@ 23 … 75 W)	360.0 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
Performance / Operational safety	47 … 63 Hz
Max. input current	0.4 A @ 230 VAC & 0.4 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	< 20 %

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)

Protection functions output side

Overpower protection	The output power is less than or equal to 82 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 shut off the output and cannot be automatically restored. After the open circuit is removed, 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 current range	1 … 100 % (2 … 700 mA)
Dimming method	Amplitude dimming

Connection terminals

Connection terminal type	0° 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: 150 … 700 mA
Output current range (DT6)	NFC control adjusts the current: 50 … 700 mA per channel Max sum of output current: 1050 mA
Default current	150 mA (DT8)
Output voltage range	50 … 240 VDC

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 16.5 A			Inrush current Twidth: 14.6 µs	
	MCB type	B10	C10	B16	C16
	Units	22	22	35	35

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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	75 °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 301 489-3 V2.3.2:2023
EN 55015:2019/A11:2020
EN 61547:2023
EN 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021

CCC
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BIS
IS 15885 (Part 2/Sec13):2012+A1: 2015
S15885 (Part1):2011+A1:2015
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SAA
AS/NZS IEC 61347.2.13.2018
AS/NZS 61347.1:2016
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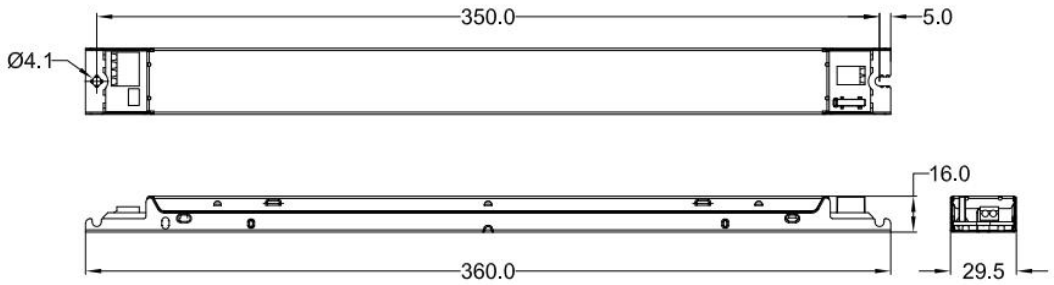
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Dimensions

Housing dimensions	
Length (L)	360.0 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	381 x 128 x 103 mm
Carton weight	5.8 kg
Product weight	0.232 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.
- 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

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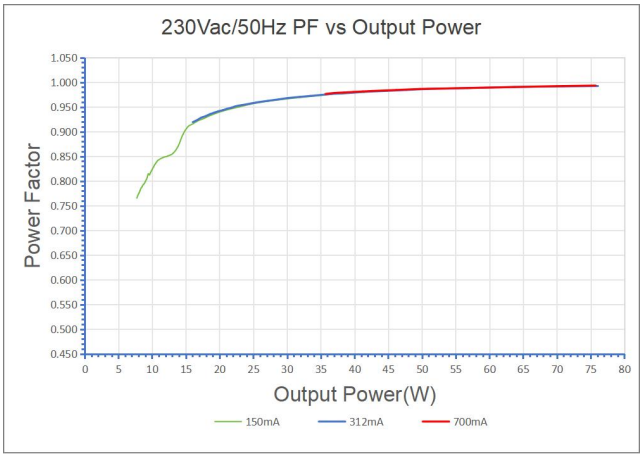
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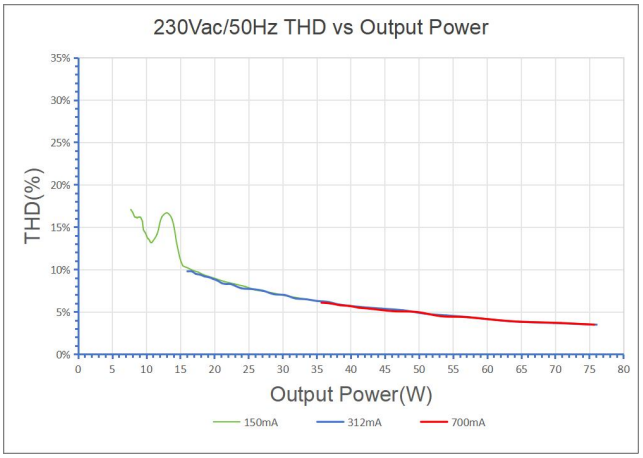
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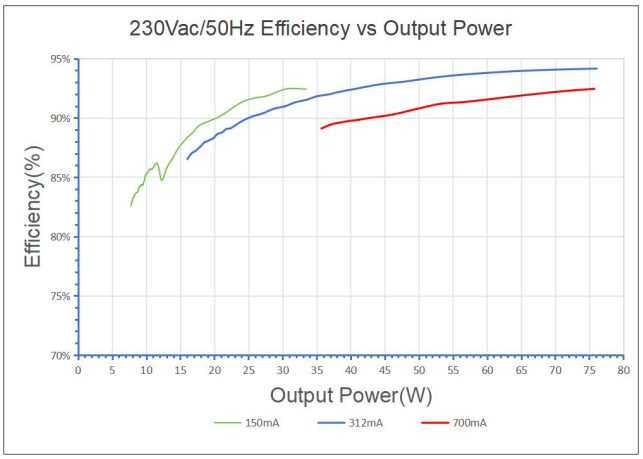
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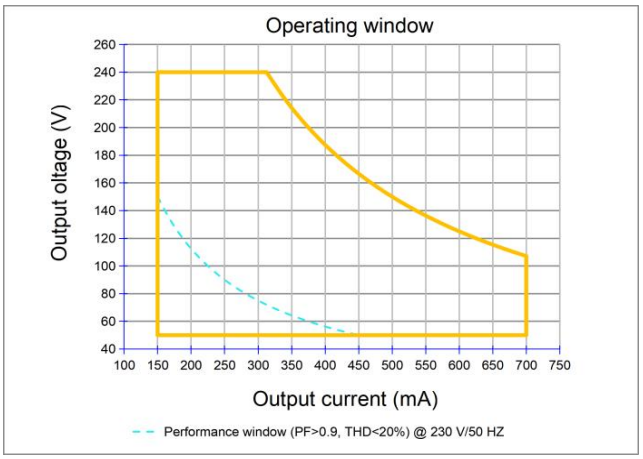
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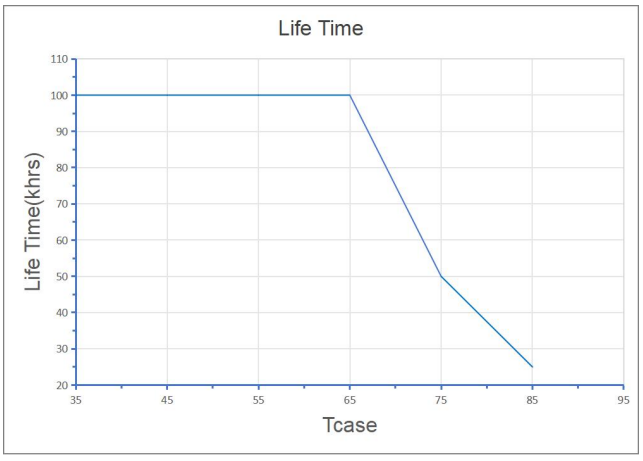
Technical information











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 75 W + 5 %.

Example of AOC settings

V LED (VDC)	AOC max	Pout (W)
240	150 mA	36
240	250 mA	60
136	550 mA	75
108	700 mA	75

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