ID ELSCB 31/230/100-750 DT8 NFC

Art. 110564

Product features

- Isolated adjustable power color temperature LED driver
- Supports DALI-2, push DIM control
- Supports i-Data function (DALI part 251, 252, 253)
- Current adjustment via NFC
- Output current 100 … 750 mA
- Max. output power 31 W
- Flicker-free, dimming range 1 … 100 % (amplitude dimming)
- Current output default value 100 %
- DC emergency
- For luminaires with protection class I
- Constant lumen output (CLO)
- Anti-glow
- 5 years warranty



Product specifications

110564 ID ELSCB 31/230/100-750 DT8 NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
100 … 750 mA	220 … 240 VAC 220 … 240 VDC	12 … 42 VDC	88 %	± 5 %	0.9 (Output Power > 12 W)	405.0 x 20.0 x 11.0

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	0.2 A @ 230 VAC & 0.2 A @ 230 VDC

Battery operation	
DC voltage range	220 … 240 VDC; performance range
Max. DC voltage range	176 … 276 VDC; operational safety range

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3 kVAC, < 5 mA 60 s; I/p-DA: 1.5 kVAC, < 5 mA 60 s; O/p-DA: 1.5 kVAC, < 5 mA 60 s
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	< 10 %

Preliminary Version

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Output data	
Output current tolerance	± 5 % at rated input voltage performance range
No load output voltage	≤ 50 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	Current output decreased to 15 % (programmable range: 1 … 100 %)

Protection functions output side	
Overvoltage protection	The output voltage is less than or equal to 50 VDC
Overpower protection	The output power is less than or equal to 37 W
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	
Standby power consumption	≤ 0.30 W
Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1 … 100 %

Connection terminals	
Connection terminal type	0° push in terminal
Wire cross section mains input	0.5 … 1.5 mm² stranded and solid-core
Wire cross section control input	0.5 … 1.5 mm² stranded and solid-core
Wire cross section output	0.2 … 1.5 mm² stranded and solid-core
Wire stripping length	8 … 9 mm

Degree of protection	
Protection rating	IP20

Operating data	
Output current range (DT8)	NFC control adjusts the current: 100 … 750 mA
Output current range (DT6)	NFC control adjusts the current: 50 … 750 mA per channel Max sum of output current: 1200 mA
Default current	100 mA
Output voltage range	12 … 42 VDC

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: TBD A			Inrush current Twidth: TBD µs	
	MCB type	B10	C10	B16	C16
	Units	TBD	TBD	TBD	TBD

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Environmental specifications

Operating temperature	-20 … +50 °C
Storage temperature	-25 … +85 °C
Working humidity	10 % … 90 %
Storage humidity	5 % … 95 %
Lifetime	at Tc 65 °C: 50,000 h @ 230 VAC (0.2 % / 1,000 h failure rate)
Maximum Tc temperature	70 °C

Safety & EMC compliance

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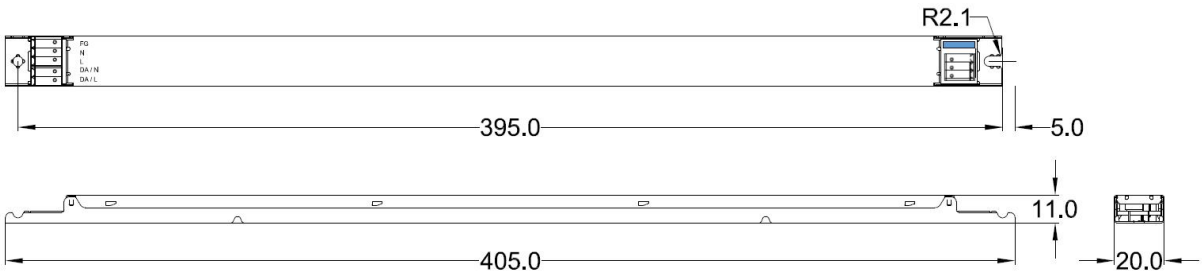
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Dimensions

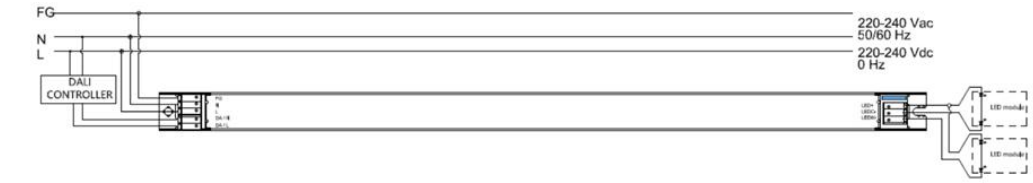
Housing dimensions	
Length (L)	405.0 mm
Width (W)	20.0 mm
Height (H)	11.0 mm

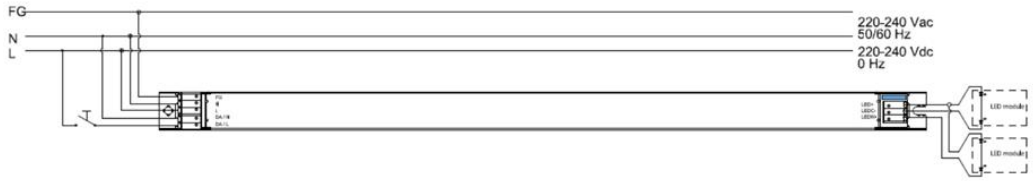
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details	
Packing units	60 pcs
Carton size	426 x 210 x 102 mm
Carton weight	11.7 kg
Product weight	0.18 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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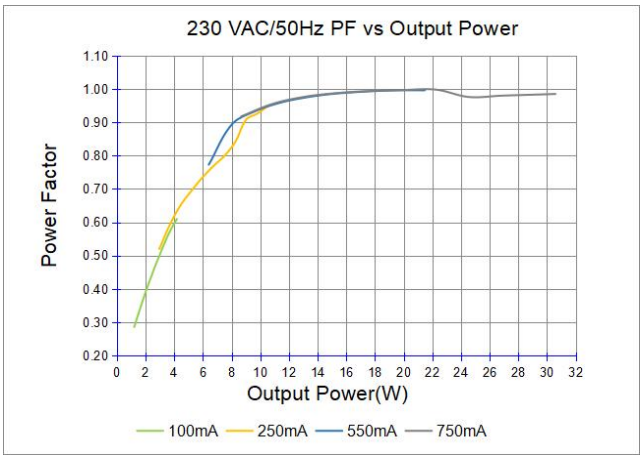
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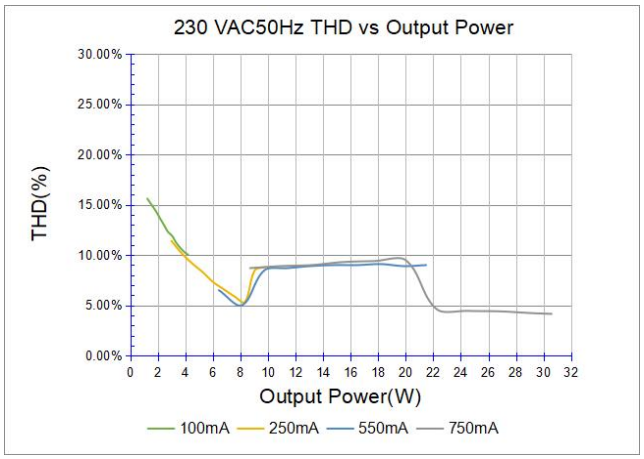
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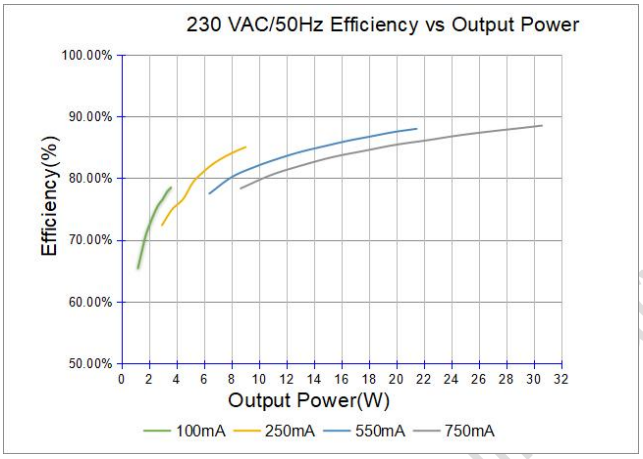
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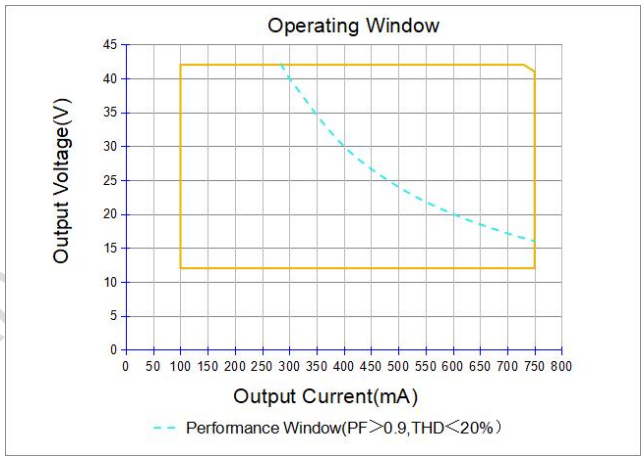
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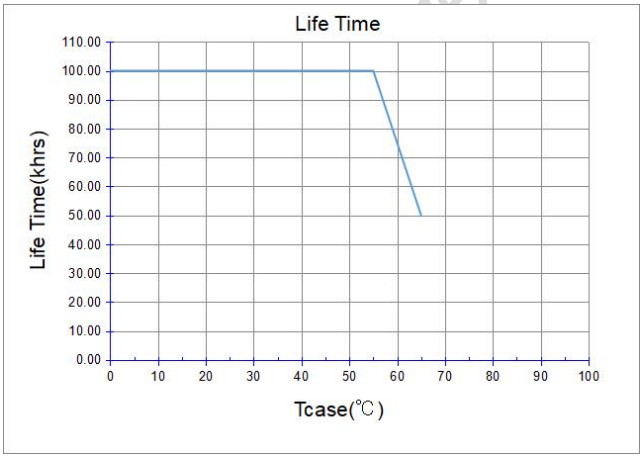
Technical information











at Tc 65 °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 31 W + 5 %.

Example of AOC settings

V LED (VDC)	AOC max	Pout (W)
42	100 mA	4.2
42	550 mA	23.1
42	730 mA	30.6
41.3	750 mA	30.9

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