

### Product features

- Built-in isolated adjustable power LED driver
- Supports DALI-2, push DIM control
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 700...2000 mA
- Max. output power 75 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Constant lumen output (CLO)
- For luminaires with protection class I
- 5 years warranty



### Product specifications

#### 168651 ID ELSCB 75/230/700-2000 DALI NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
700...2000 mA	220...240 Vac 220...240 Vdc	15...52 Vdc	91% (@ 52V 1440 mA)	± 5%	0.9 (Output Power > 30 W)	278.0 x 30.0 x 21.0

### 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	0.42 A @ 230 Vac & 0.42 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-FG: 1.5 kVac, < 5 mA 60sec; I/p-DA: 1.5 kVac, < 5 mA 60sec I/p-O/p: 3.75 kVac, < 5 mA 60sec, O/p-DA: 1.5 kVac, < 5 mA 60sec O/p-FG: 1.5 kVac, < 5 mA 60sec, DA-FG: 1.5 kVac, < 5 mA 60sec
Mains surge immunity	L-N 1 kV, L/N-FG 2 kV per IEC 61000-4-5
Control interface surge immunity	DA - DA 1.0 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	≤ 60 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 60 V
Overpower protection	The output power is less than or equal to 82 W
Short circuit protection	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

Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100% (7...2000 mA)
Standby power consumption	≤ 0.3 W

### Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm <sup>2</sup> ; Output wire: 0.2...1.5 mm <sup>2</sup>
Wire stripping length	8...9 mm

### Degree of protection

Protection rating	IP20
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### Operating data

Output current range	NFC control adjusts the current: 700...2000 mA
Default current	700 mA
Output voltage range	15...52 Vdc
Noise level	< 24 dB, at full load @ 100 cm distance

### Circuit breaker / Inrush current

MCB loading quantity	Inrush current I <sub>peak</sub> : 46.6 A			Inrush current T <sub>width</sub> : 149 μs	
	MCB type	B10	C10	B16	C16
	Units	15	22	24	35

## 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](http://www.cupower.com).

### Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 50,000 hrs; at Tc 65°C: 100,000 hrs @ 230 Vac
Maximum Tc temperature	80°C

### Safety & EMC compliance

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DALI-2 Acc. to EN 62386
Acc. to IEC 62386-101:Ed2
Acc. to IEC 62386-102:Ed2
Acc. to IEC 62386-207:Ed1
Acc. to IEC 62386-251:Ed2
Acc. to IEC 62386-252:Ed2
Acc. to IEC 62386-253:Ed2

### Dimensions

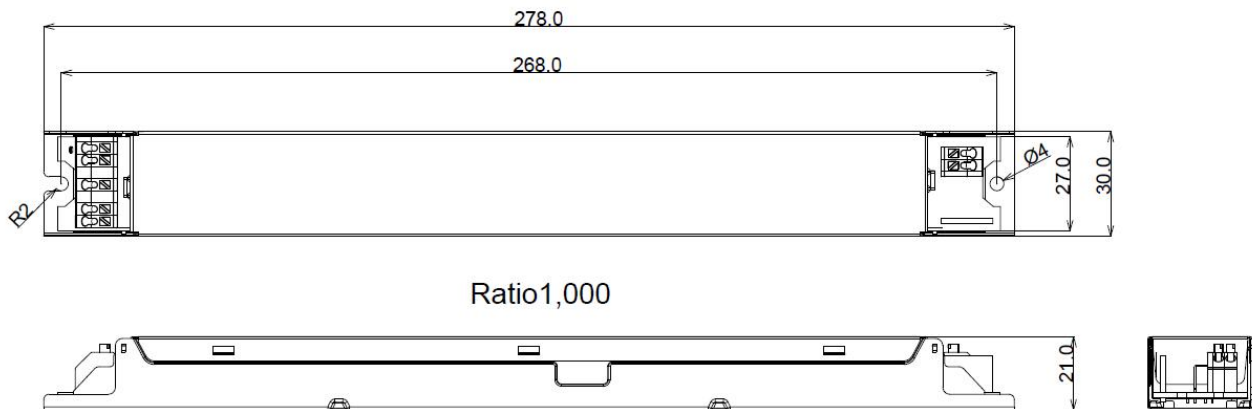
#### Housing dimensions

Length (L)	278.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

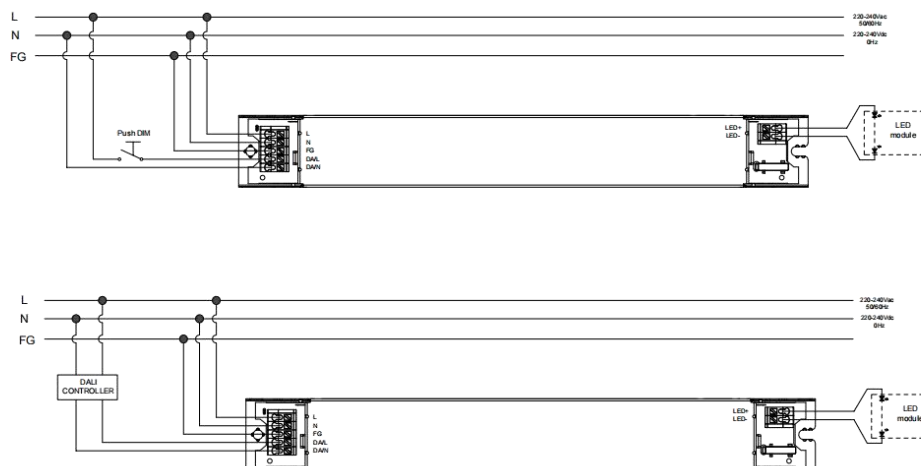
For all dimensions: values in mm; tolerances:  $\pm 0.5$  mm

#### Packaging details

Packing units	56 pcs
Carton size	375 mm $\times$ 325 mm $\times$ 185 mm
Weight	12.68 kg
Product weight	0.214 kg

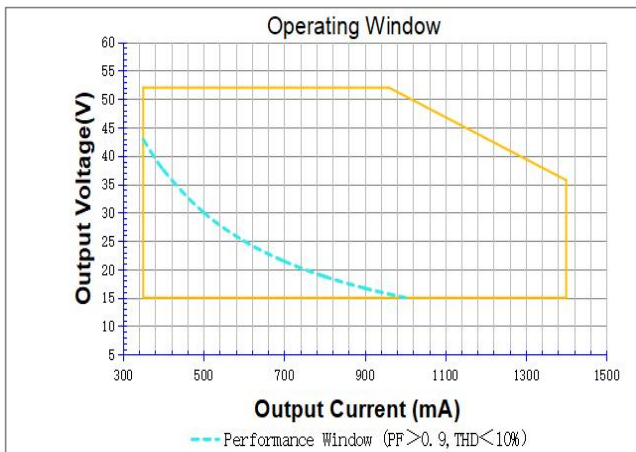
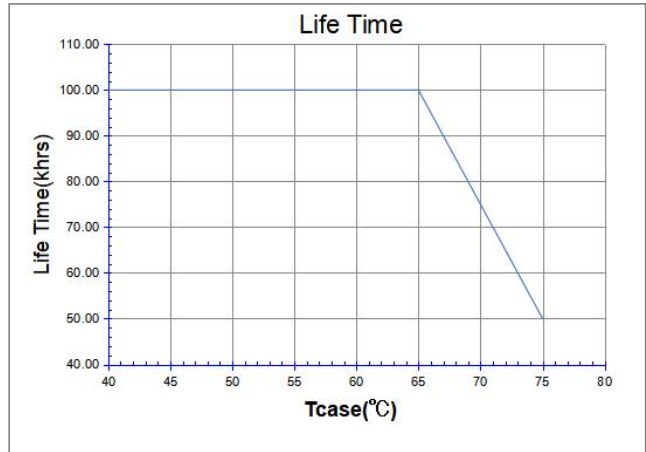
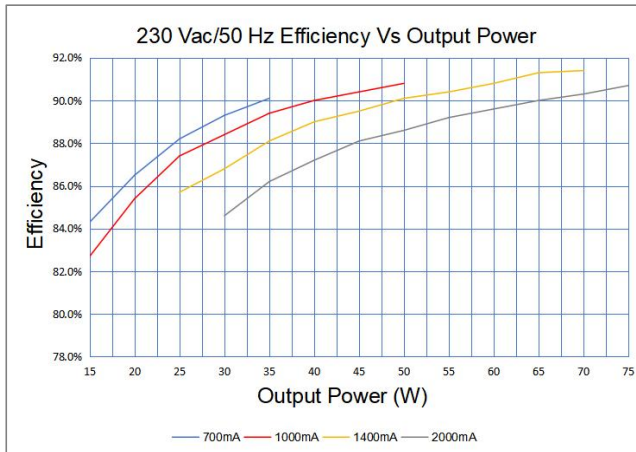
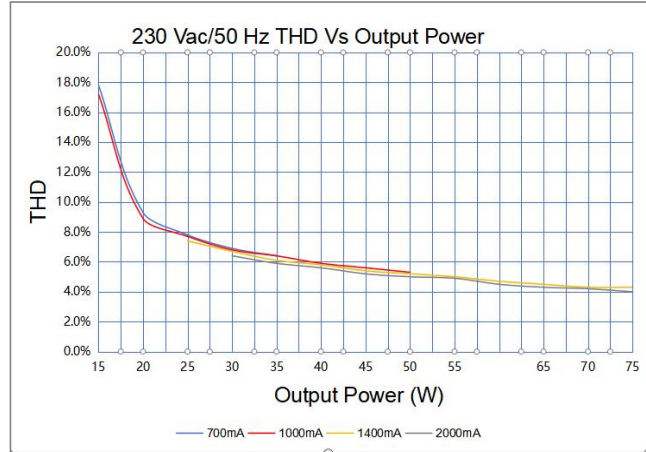
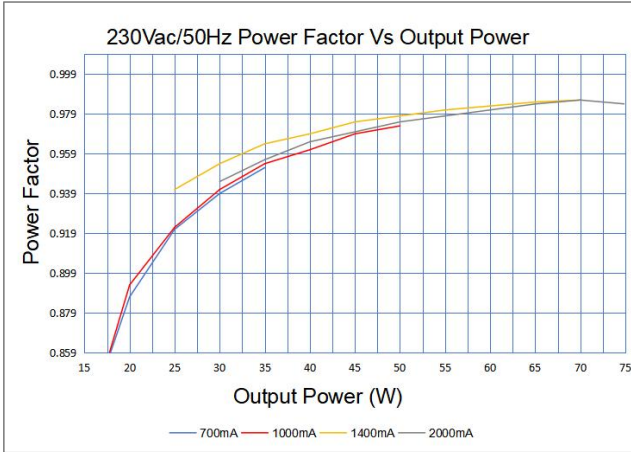


### Wiring diagram



- 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 circuit.
- PUSH DIM instruction manual please refer to the link: [CUPOWER\\_PUSH DIM MANUAL 2024\\_03](#)

### Technical information



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)
52	700 mA	36.4
52	1000 mA	52
52	1400 mA	72.8
37.5	2000 mA	75