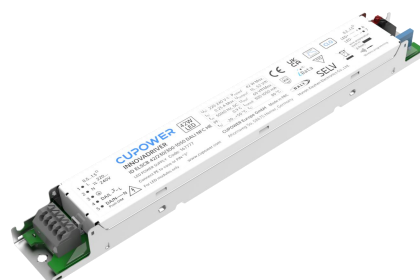


Product features

- Built-in isolated adjustable power LED driver
- Supports DALI-2, push DIM
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 300...1050 mA
- Max. output power 42 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

167777 ID ELSCB 42/230/300-1050 DALI NFC HE

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
300 mA	220...240 Vac 220...240 Vdc	15...52 Vdc	89%	± 5%	0.9 (Output Power > 18 W)	238 x 30 x 21
550 mA		15...52 Vdc	91%			
807 mA		15...52 Vdc	92%			
1050 mA		15...40 Vdc	91%			

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	0.25 A @ 230 Vac & 0.25 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 60 sec; I/P-DA: 1.5 kVac, < 5 mA 60 sec I/p-O/p: 3.75 kVac, < 5 mA 60 sec, O/P-DA: 1.5 kVac, < 5 mA 60 sec O/p-FG: 1.5 kVac, < 5 mA 60 sec, DA-FG: 1.5 kVac, < 5 mA 60 sec
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Mains surge immunity	L-N 1 kV, L/N-FG: 2 kV IEC 61000-4-5
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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

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 46 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% (3...1050 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 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	NFC control adjusts the current: 300...1050 mA
Default current	300 mA
Output voltage range	15...52 Vdc
Noise level	< 20 dB, at full load @100cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 24.3 A			Inrush current Twidth: 175 μs	
	MCB type	B10	C10	B16	C16
	Units	24	41	39	66

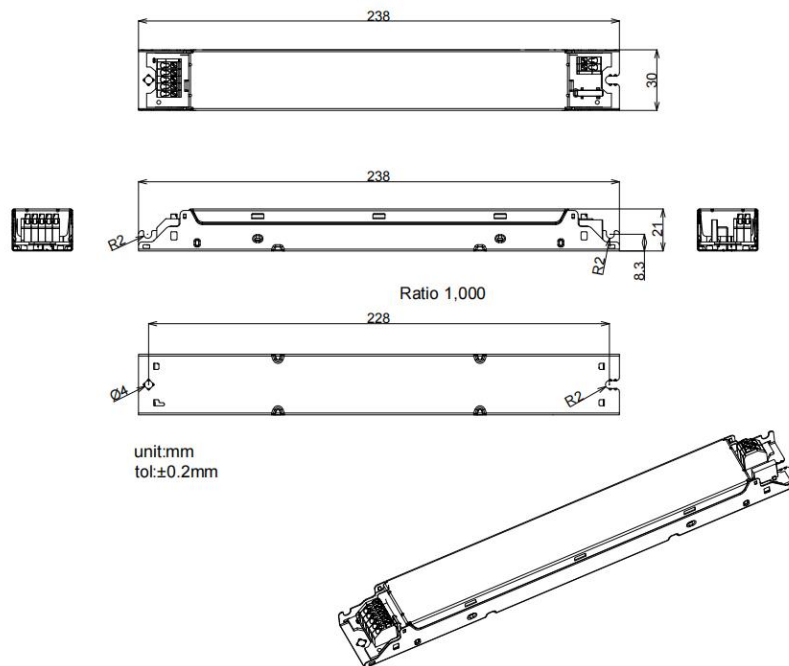
Dimensions

Housing dimensions

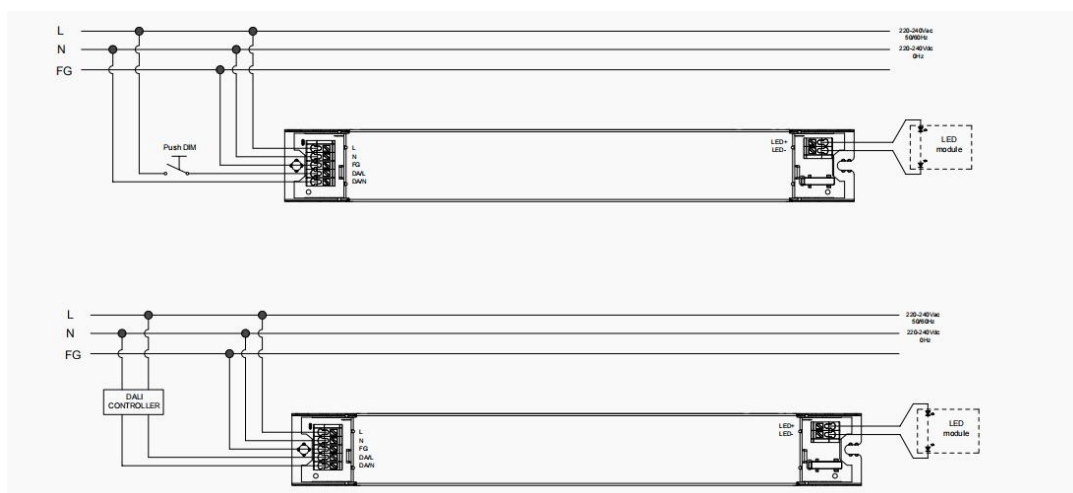
Length (L)	238 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.16 kg

Packaging details

Packing units	20 pcs
Carton size	255 x126 x133 mm
Weight	3.5 kg

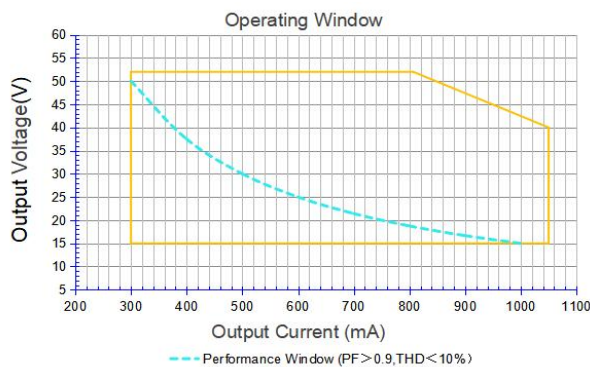
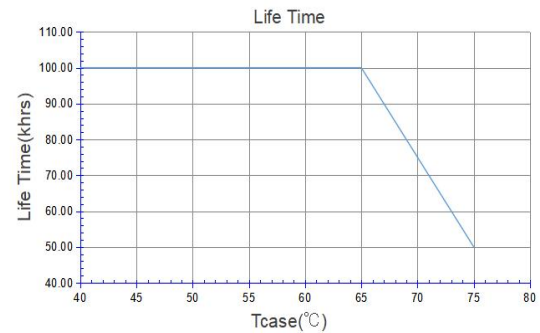
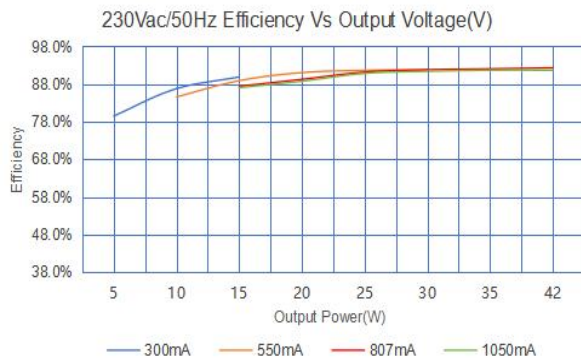
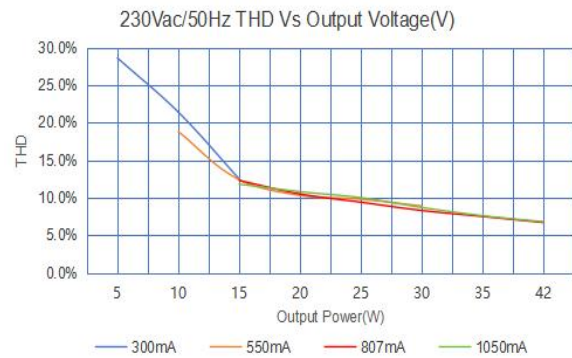
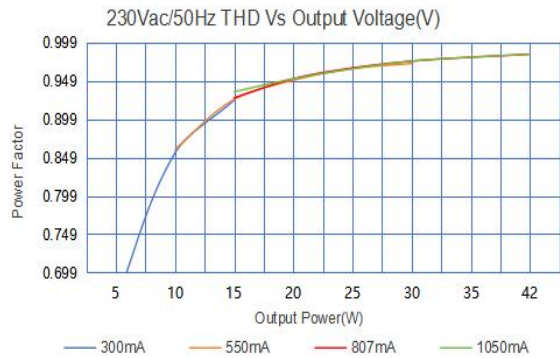


Wiring diagram



- 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.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 42 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	300 mA	15.6
52	550 mA	28.6
52	807 mA	42
40	1050 mA	42