

### Product features

- Flicker-free LED driver
- Supports DALI-2, push DIM
- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 100...850 mA
- Max. output power 35 W
- Constant lumen output (CLO)
- For luminaires with protection class I
- 5 years warranty



### Product specifications

#### 160822 ID LCCB 35/230/100-850 DALI NFC FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
100 mA	220...240 Vac 220...240 Vdc	15...54 Vdc	82%	± 5%	0.9	278 x 30 x 16
350 mA		15...54 Vdc	87%			
650 mA		15...54 Vdc	88%			
850 mA		15...41.2 Vdc	87%			

### 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	0.21 A @ 230 Vac & 0.21 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: 3.75 kVac, < 5 mA 60 sec; I/p-Da: 1.5 kVac, < 5 mA 60sec I/p-FG: 1.5 kVac, < 5 mA 60 sec; O/p-Da: 1.5 kVac, < 5 mA 60sec O/p-FG: 1.5 kVac, < 5 mA 60 sec; Da-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%
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### Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	≤ 59 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 59 V
Overpower protection	The output power is less than or equal to 38.5 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% (1...850 mA)
Standby power consumption	≤ 0.3 W

### Connection terminals

Connection terminal type	0° push in terminal
Wire cross section	Input and output wire: 0.5...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: 100...850 mA
Default current	100 mA
Output voltage range	15...54 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

### Circuit breaker / Inrush current

MCB loading quantity	Inrush current I <sub>peak</sub> : 4.93 A			Inrush current T <sub>width</sub> : 38.5 μs	
	MCB type	B10	C10	B16	C16
	Units	46	46	73	73



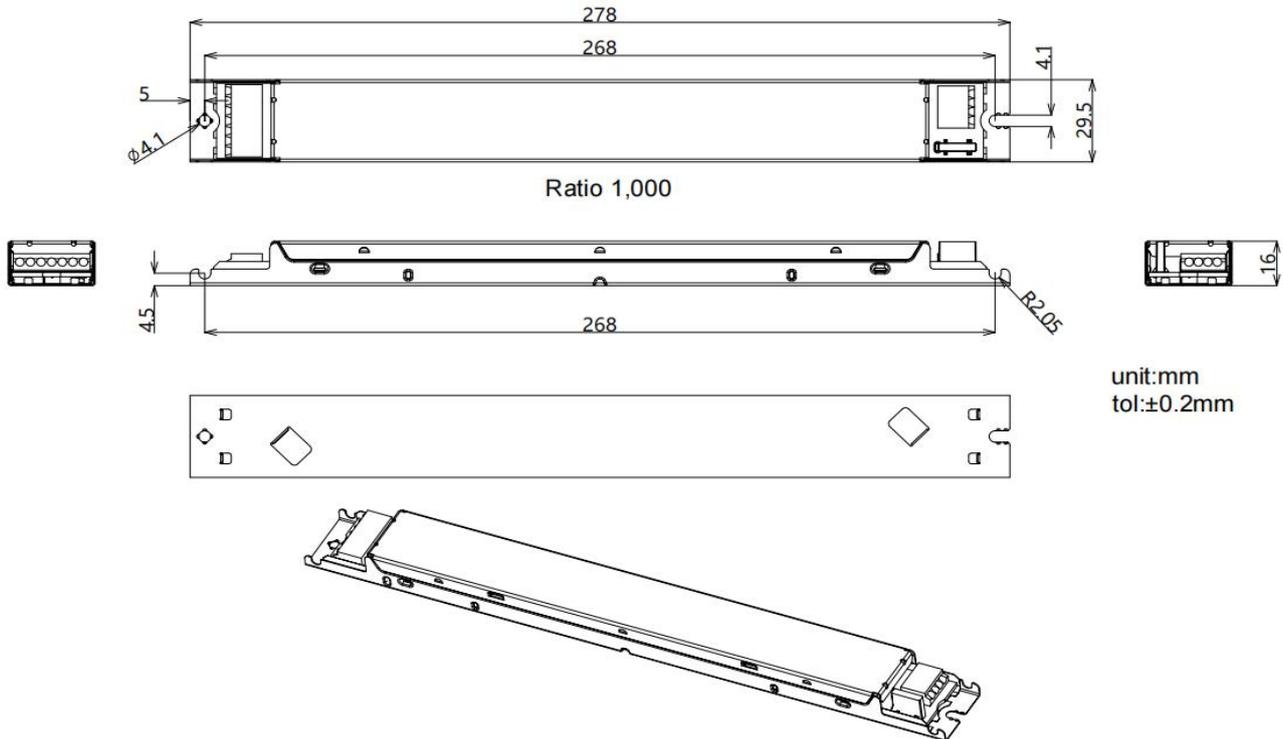
### Dimensions

#### Housing dimensions

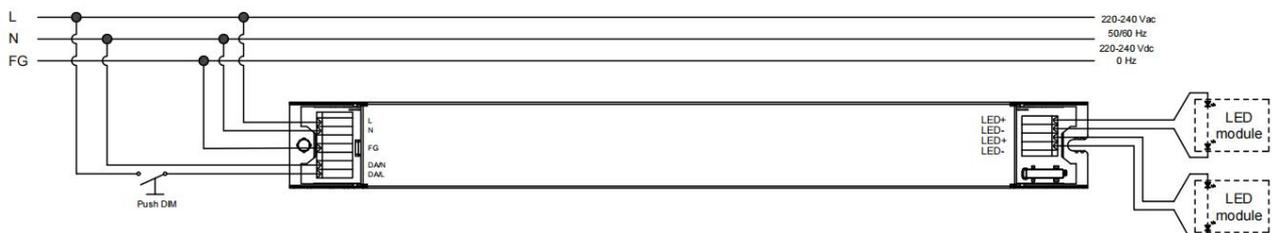
Length (L)	278 mm
Width (W)	30 mm
Height (H)	16 mm
Weight	0.165 kg

#### Packaging details

Packing units	20 pcs
Carton size	299 x 128 x 103 mm
Weight	3.5 kg

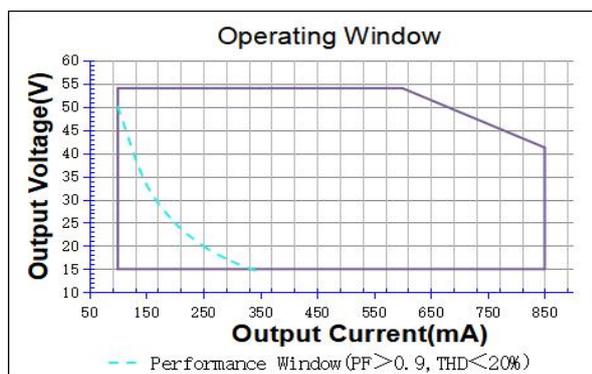
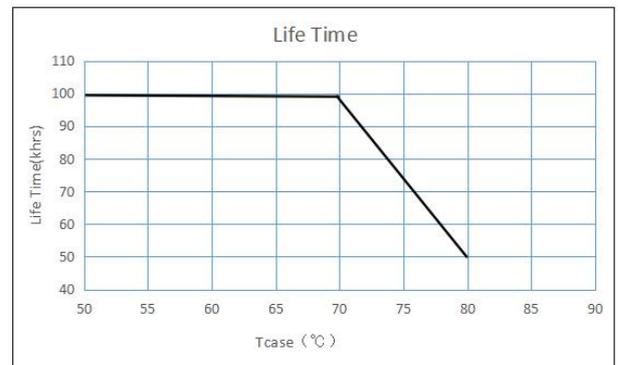
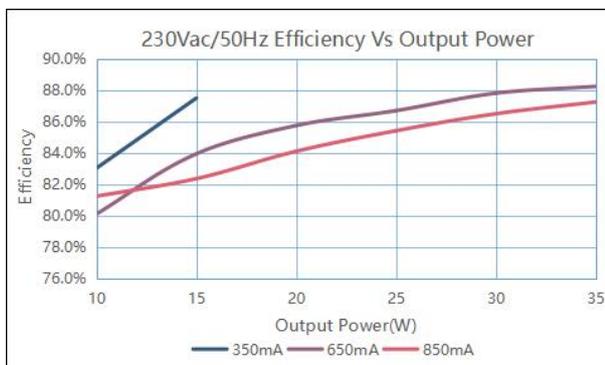
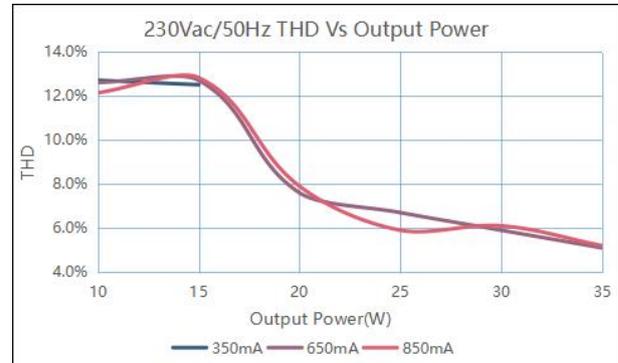
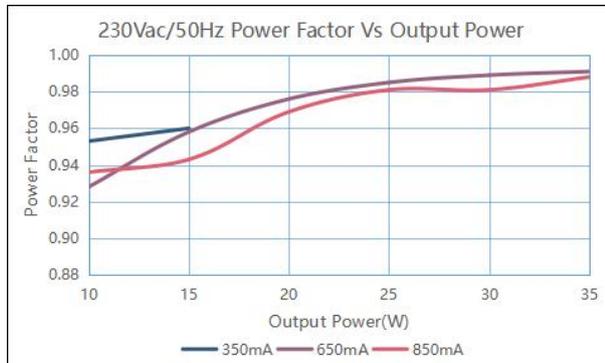


### Wiring diagram



- 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 35 W + 5%.

#### Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	100 mA	5
54	350 mA	15
54	650 mA	35
41.2	850 mA	35