

Product features

- Built-in non isolated adjustable power LED driver
- Supports DALI-2, push DIM
- Flicker-free LED driver
- Supports i-Data function (DALI part 251, 252, 253)
- Output current adjustable from 50 to 550 mA via DIP switch
- Max. output power 80 W
- DC emergency
- For luminaires with protection class I
- 5 years warranty



Product specifications

167906 ID ELNCB 80/230/050-550 DALI DIP H21

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
50 mA	220...240 Vac 220...240 Vdc	50...220 Vdc	88%	± 8%	0.8 C	238 x 30 x 21
100 mA		50...220 Vdc	92%	± 5%	0.9 C	
150 mA		50...220 Vdc	93%		0.95	
200 mA		50...220 Vdc	93.5%			
250 mA		50...220 Vdc	94%			
300 mA		50...220 Vdc	94%			
350 mA		50...220 Vdc	94%			
400 mA		50...200 Vdc	93.5%			
450 mA		50...177 Vdc	93.5%			
500 mA		50...160 Vdc	93.5%			
550 mA		50...145 Vdc	93%			

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...280 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; DA-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N: 1 kV, L/N-FG: 2 kV per IEC 61000-4-5
Control interface surge immunity	DA-DA: 1 kV, DA-FG: 2 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	100...550 mA ± 5% at rated input voltage range
Output current tolerance	50 mA ± 8% at rated input voltage range
No load output voltage	≤ 250 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 250 Vdc
Overpower protection	The output power is less than or equal to 84 W
Short circuit protection & Over voltage protection	Short circuit protection and overvoltage protection are 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.

Dimming operation and interface

Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%~100% (0.5...550 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	50...550 mA
Default current	50 mA
Output voltage range	50...220 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Dimensions

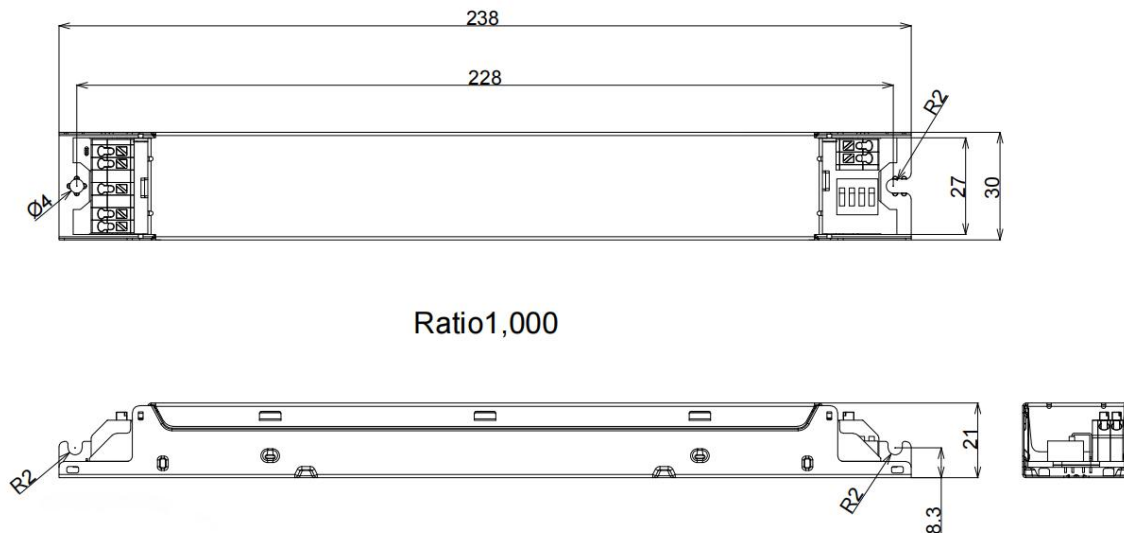
Housing dimensions

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

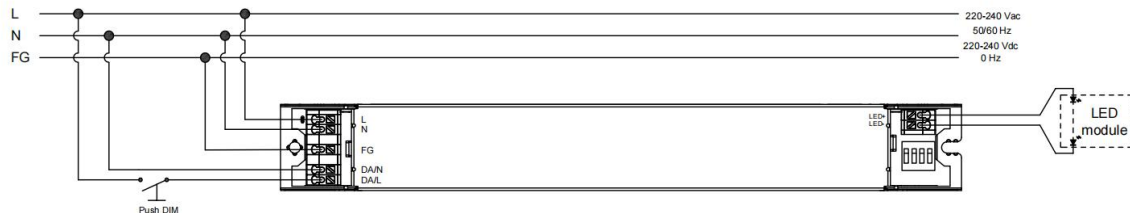
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	60 pcs
Carton size	317 x 248 x 160 mm
Carton weight	10.8 kg
Product weight	0.170 kg

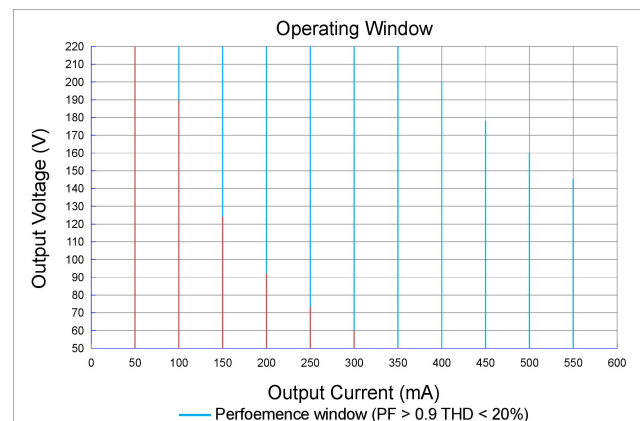
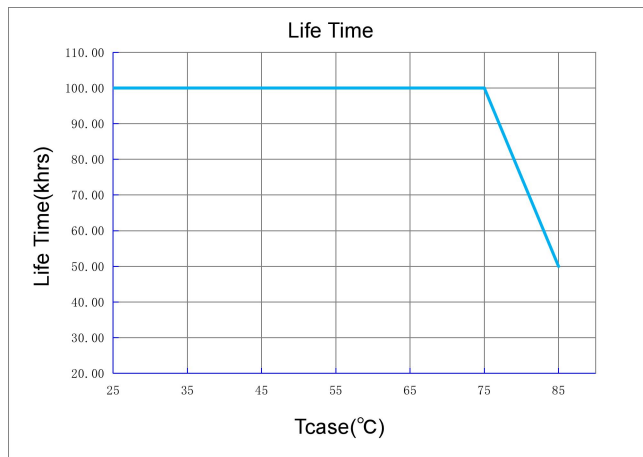
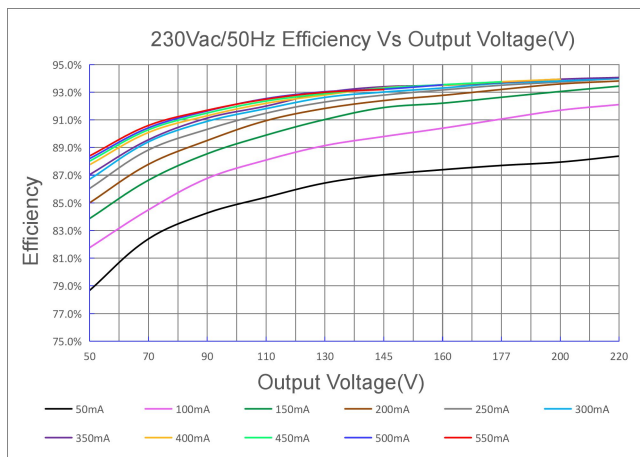
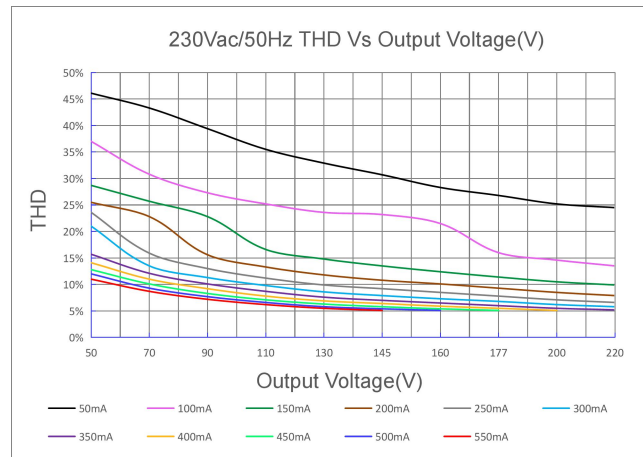
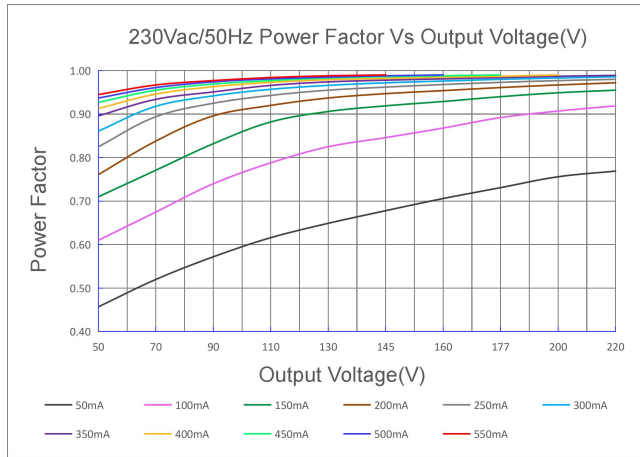


Wiring diagram



- 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.
- The outputs of drivers cannot be in paralleled.

Technical information



Adjustable output current via DIP switch

Vout	Pout	Iout	1	2	3	4
50...220 Vdc	11 W	50 mA	-	-	-	-
50...220 Vdc	22 W	100 mA	ON	-	-	-
50...220 Vdc	33 W	150 mA	-	ON	-	-
50...220 Vdc	44 W	200 mA	ON	ON	-	-
50...220 Vdc	55 W	250 mA	-	-	ON	-
50...220 Vdc	66 W	300 mA	ON	-	ON	-
50...220 Vdc	77 W	350 mA	-	ON	ON	-
50...200 Vdc	80 W	400 mA	ON	ON	ON	-
50...177 Vdc	79.6 W	450 mA	-	-	-	ON
50...160 Vdc	80 W	500 mA	ON	-	-	ON
50...145 Vdc	79.7 W	550 mA	-	ON	-	ON