

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 200...900 mA by DIP switch adjust
- Max. output power 150 W
- DC emergency
- For luminaires with protection class I
- 5 years warranty



Product specifications

169149 ID ELNCB 150/230/200-900 DALI DIP H21

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
200 mA	220...240 Vac 220...240 Vdc	64...290 Vdc	94.5%	± 15 mA	0.90	302.0 x 30.0 x 21.0
250 mA		64...290 Vdc	94.5%			
300 mA		64...290 Vdc	95%			
350 mA		64...290 Vdc	95%	± 5%	0.95	
400 mA		64...290 Vdc	95%			
450 mA		64...290 Vdc	95%			
500 mA		64...290 Vdc	95%			
550 mA		64...273 Vdc	95%			
600 mA		64...250Vdc	95%			
650 mA		64...231 Vdc	94.5%			
700 mA		64...215 Vdc	94.5%			
750 mA		64...200 Vdc	94.5%			
800 mA		64...188 Vdc	94.5%			
850mA		64...177 Vdc	94%			
900mA		64...166 Vdc	94%			

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	0.7 A @ 230 Vac & 0.7 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	198...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	200...250 mA ±15 mA at rated input voltage range
Output current tolerance	300...900 mA ±5% at rated input voltage range
No load output voltage	≤ 300 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 300 Vdc
Overpower protection	The output power is less than or equal to 165 W
Short-circuit protection & Overvoltage 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% (2...900 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	Output current 200...900mA by DIP switch adjust
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Default current	200 mA
Output voltage range	64...290 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 52.4 A	Inrush current Twidth: 255 µs			
	MCB type	B10	C10	B16	C16
	Units	7	11	12	18

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.

Installation instruction

- Install the LED driver in the direct neighborhood of other cupower products.
- Do not mount the LED driver inside a metal housing or directly next to a large metal object.
- Some glass and plastic materials influence the operation of an antenna.
- The protection of the built-in drive is carried out by means of the luminaire housing.
- Contact CUPOWER in case of doubt via: www.cupower.com

Environmental specifications

Operating temperature	-20...+55°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs @ 230Vac
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN IEC 55015:2019/A11:2020 EN IEC 61547:2023 EN IEC 61000-3-2:2019/A2:2024 EN 61000-3-3:2013/A2:2021 	CCC 	SAA AS 61347.2.13:2018 AS/NZS 61347.1:2016 Amd 1:2018
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

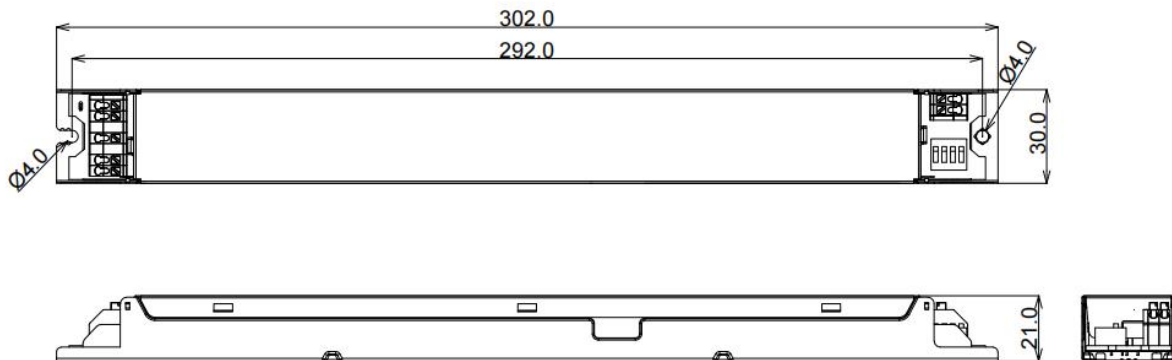
Housing dimensions

Length (L)	302.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

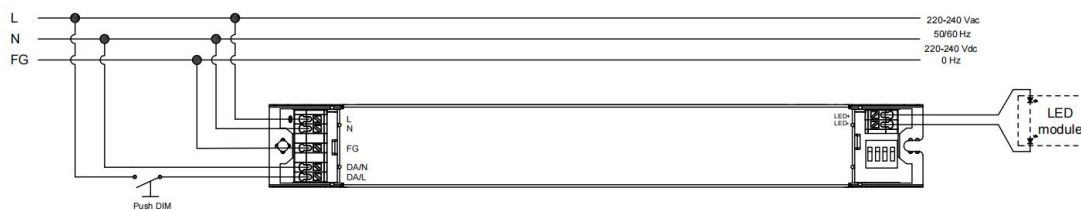
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	40 pcs
Carton size	352 x 277 x 185 mm
Carton weight	11.08 kg
Product weight	0.262 kg

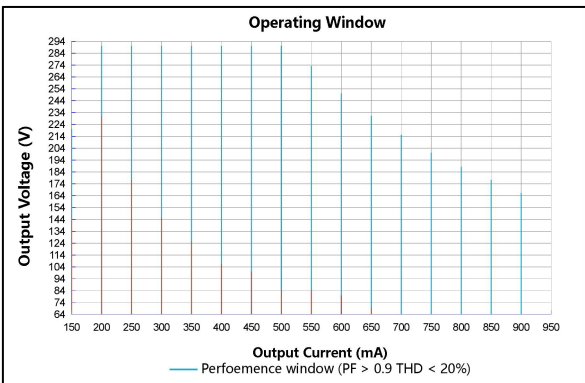
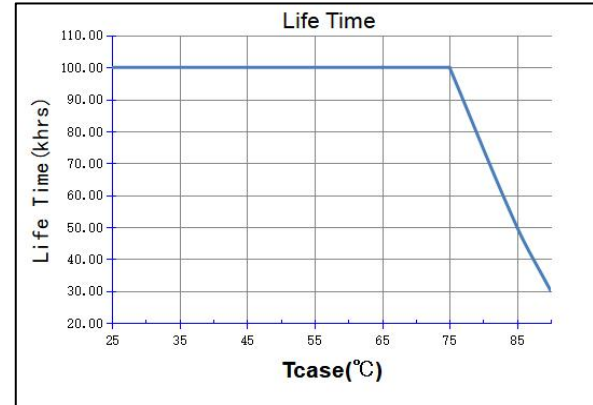
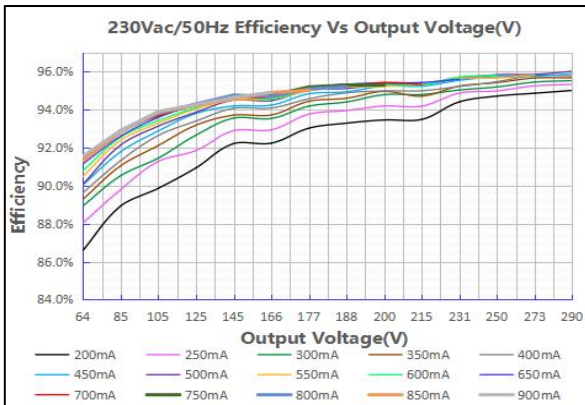
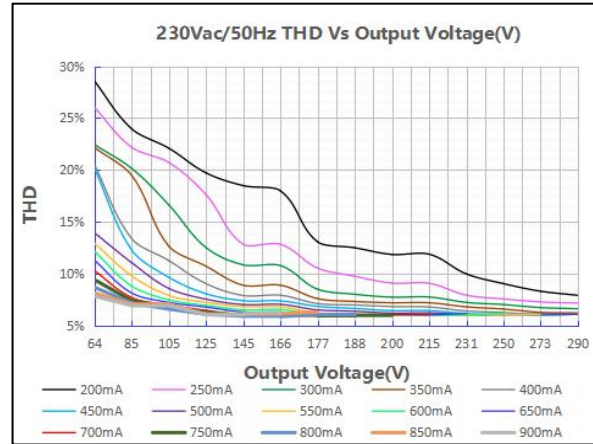
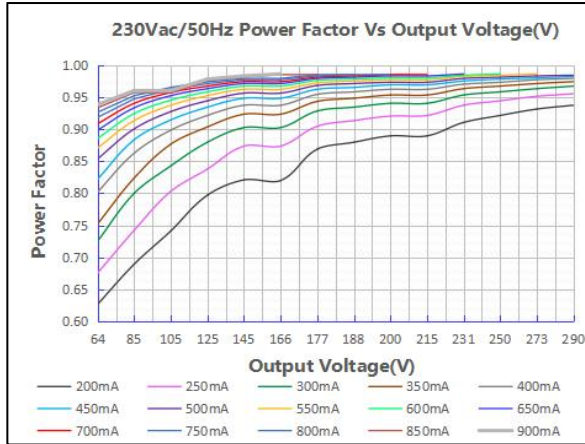


Wiring diagram



- 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 with DIP switch

Vout	Pout	Iout	1	2	3	4
64...290 Vdc	58 W	200 mA	-	-	-	-
64...290 Vdc	72 W	250 mA	ON	-	-	-
64...290 Vdc	87 W	300 mA	-	ON	-	-
64...290 Vdc	101 W	350 mA	ON	ON	-	-
64...290 Vdc	116 W	400 mA	-	-	ON	-
64...290 Vdc	130 W	450 mA	ON	-	ON	-
64...290 Vdc	145 W	500 mA	-	ON	ON	-
64...273 Vdc	150 W	550 mA	ON	ON	ON	-
64...250 Vdc	150 W	600 mA	-	-	-	ON
64...231 Vdc	150 W	650 mA	ON	-	-	ON
64...215 Vdc	150 W	700 mA	-	ON	-	ON
64...200 Vdc	150 W	750mA	ON	ON	-	ON
64...188 Vdc	150 W	800 mA	-	-	ON	ON
64...177 Vdc	150 W	850 mA	ON	-	ON	ON
64...166 Vdc	150 W	900 mA	-	ON	ON	ON