ID ECSCI 10/230/100-250 DALI DIP

Art.165834

Product features

- Independent isolated adjustable adjustable power LED driver
- Support DALI-2, Push Dimming
- Flicker-free LED driver
- DIP control adjusts the current
- Output current 100…250 mA by DIP Switch adjust
- Max. output power 10 W
- Constant lumen output (CLO)
- For luminaires with protection class I, II
- 5 years warranty

Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor @ full load	Dimension L x W x H (mm)
100 mA	220…240 Vac 220…240 Vdc	21…40Vdc	76%	± 7%	≥ 0.9C	126.0 x 38.0 x 25.0
150 mA			80%		≥ 0.95	
200 mA			81%	± 5%		
250 mA			84%			

Electrical specifications

Mains voltage supply

Rated input voltage range	220…240 Vac
Max. input voltage range	198...264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.055 A @ 230 Vac

Protection against voltage peaks

Withstand voltage	I\P-O/P: 3 kVac, < 5 mA 60 sec, I\P-DA: 1.5 kVac, O\P-DA: 1.5 kVac
Mains surge immunity	L-N 1 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	< 10%

Output data

Output current tolerance	100-150 mA ± 7% at rated input voltage range 200-250 mA ± 5% at rated input voltage range
No load output voltage	≤ 55 Vdc
Ripple output current	≤ 5% (ripple = peak/average total 100 Hz)

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Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4% at full load @ rated input voltage

Protection functions output side

Short circuit protection	Yes
Overvoltage protection	The output voltage is less than or equal to 55 V
Overpower protection	The output power is less than or equal to 12 W

Dimming operation and interface

Standby power consumption	≤ 0.3 W
Dimming mode:	DALI-2, Push Dimming
Dimming method:	amplitude dimming
Dimming current range:	1%…100%

Connection terminals

Connection terminal type	45° Push in terminal
Wire cross section	Input wire: 0.75...1.5 mm^2 ; Output wire: 0.2...1.5 mm^2 ;
Wire stripping length	8…9 mm

Degree of protection

Protection rating	IP20

Operating data

Output current range	DALI control adjusts the current: 2…250 mA
Set output current	DIP Switch adjusts the current:100...250 mA
Default current	100 mA
Output voltage range	21…40 Vdc
Starting time（AC）	≤ 660ms
Emergency light	Switching time AC-DC: Stable current consumption within 1.6 s Automatic restart DC-AC with standard starting time: ≤ 660 ms
Noise leve	< 20dB, at full load @ 100cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 11.9 A			Inrush current Twidth: 160 μs	
	MCB type	B10	C10	B16	C16
	Units	55	93	89	149

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.

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Protection

- Over voltage protection:Hiccup mode.Protection will trigger when load voltage exceed specified output voltage and will auto recover after the fault mode is removed.
- Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Environmental specifications

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

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-2-13:2014+A1:2017	/	/
EN 61347-1:2015+A1:2021	/	/
EN 62384:2020	/	/
EN 62493:2015+A1:2022	/	/
EN 55015:2019/A11:2020	/	/
EN 61000-3-2:2019/A1:2021	/	/
EN 61000-3-3:2013/A1:2019/A2:2021	/	/
EN 61547:2023	/	/

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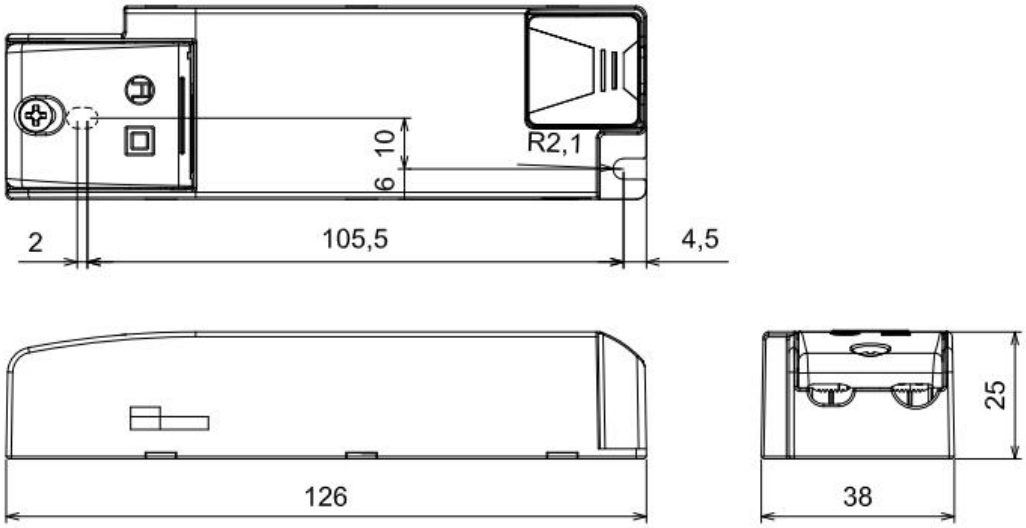
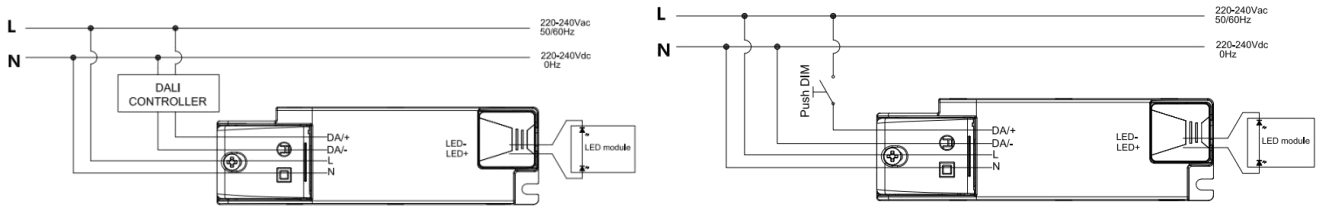
Dimensions

Housing dimensions	
Length (L)	126.0 mm
Width (W)	38.0 mm
Height (H)	25.0 mm
For all dimensions: values in mm; tolerances: ± 0.5 mm	

Packaging details	
Packing units	50 pcs.
Carton size	265 x 200 x 160 mm
Weight	4.35 kg
Product weight	0.08 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.

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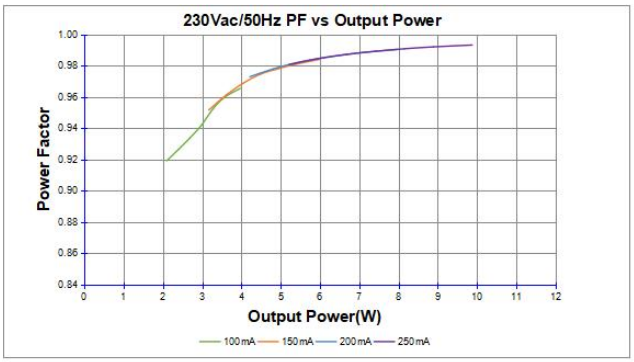
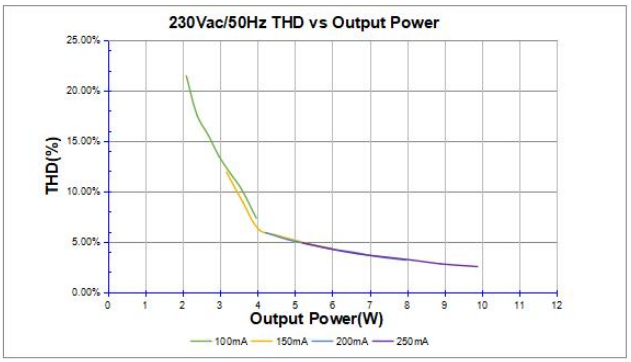
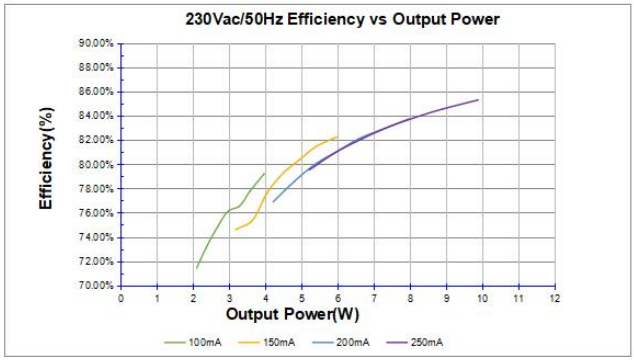
Adjustable output current with DIP switch

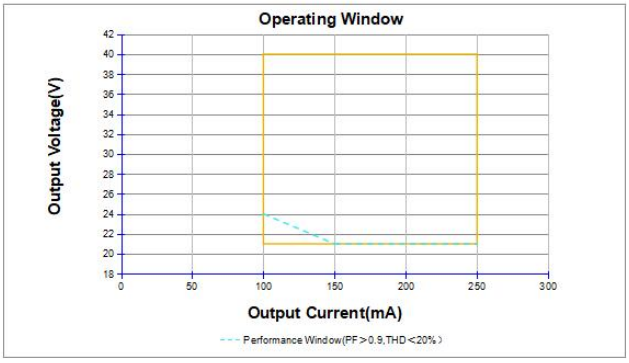
Vout	Pout	Iout	1	2
21-40 Vdc	4 W	100 mA	-	-
21-40 Vdc	6 W	150 mA	-	ON
21-40 Vdc	8 W	200 mA	ON	-
21-40 Vdc	10 W	250 mA	ON	ON

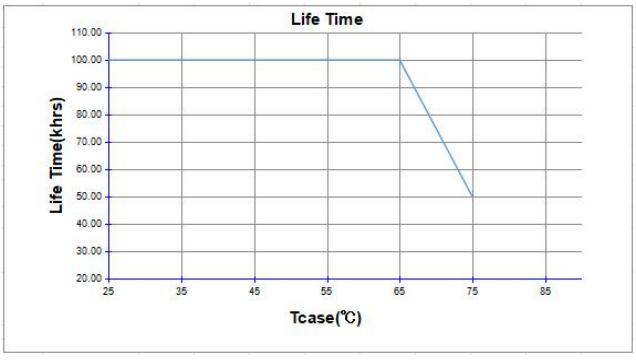
Technical information











It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 10 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
40	250 mA	10
35	250 mA	8.75
30	250 mA	7.5
21	250 mA	5.25

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