ID ELSCB 40/230 150-1050 SKY NFC

Art.110502

Product features

- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Constant lumen output (CLO)
- Output current 150 … 1,050 mA
- Max. output power 40 W
- DC emergency
- Current output default value 150 mA
- For luminaires with protection Class I
- With anti glow function
- Flicker-free, with a dimming range of 1 … 100% via a Skylink.
- Packing unit programming: configure a large number of drivers in parallel via NFC
- 5 years warranty
- The external antenna needs to be purchased separately



Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150 … 1,050 mA	220 … 240 VAC 220 … 240 VDC	15 … 54 VDC	88 % (@ 54 V 740 mA)	±5 %	0.9	278.0 x 29.5 x 16.0

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
Max. input current	0.24 A @ 230 VAC & 0.24 A @ 230 VDC

Battery operation	
DC voltage range	220 … 240 VDC; performance range
Max. DC voltage range	176 … 278 VDC; operational safety range

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3.75 kVAC, < 5 mA 60 sec;I/p-FG: 1.5 kVAC, < 5 mA 60 sec; O/p-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	< 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
DC emergency level	Current output decreased to 15 % (programmable)

Protection functions output side	
Overvoltage protection	The output voltage is less than or equal to 60 VDC
Overpower protection	The output power is less than or equal to 44 W
Short circuit protection	Short circuit protection is 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: • Turn on the light using the BLE dimming command. • Restart the driver: Turn off the power first, and then turn on the drive power after five seconds
No load output voltage	Open circuit protection is designed to shut off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations: • Turn on the light using the BLE dimming command. • Restart the driver: Turn off the power first, and then turn on the drive power after five seconds

Dimming operation and interface	
Standby power consumption	< 0.4 W
Dimming mode	BLE dimming
Dimming method	AM dimming
Dimming current range	1 … 100 %

Connection terminals	
Connection terminal type	0° push in terminal
Wire cross section	Input and output wire: 0.5 … 1.5 mm²
Wire stripping length	8 … 9 mm

Degree of protection	
Protection rating	IP20

Operating data	
Output current range	NFC control adjusts the current: 150 … 1,050 mA
Default current	150 mA
Output voltage range	15 … 54 VDC

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 15 A			Inrush current Twidth: 25 µs	
	MCB type	B10	C10	B16	C16
	Units	41	41	66	66

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Environmental specifications

Operating temperature	-20 … +55 °C
Storage temperature	-25 … +85 °C
Working humidity	10 … 90 %
Storage humidity	5 … 95 %
Lifetime	at Tc 85 °C: 50,000 h @ 230 VAC; at Tc 75 °C: 100,000 h @ 230 VAC (0.2 % / 1,000 h failure rate)
Maximum Tc temperature	85°C

Safety & EMC compliance

CE	CCC	SAA
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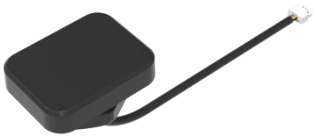
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Accessories (Required) - SkyLink Antenna



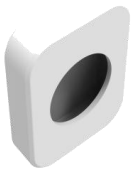


Skylink	Black	White
IC EC BLE CH CS	168927	167685
IC EC BLE MM	168873	167739
IC EC BLE ML	168866	167746

CS = Casambi, MM = Mymesh, ML= Meshle

Dimensions	Length (mm)	Width (mm)	Height (mm)
Skylink casing	40	31	16
Wire	300	N/A	N/A

Accessories (Optional) - IP65 protection for SkyLink Antenna







XZ-SKY IP W		XZ-SKY IP G		XZ-SKY IP B	
Art.	110267	Art.	110281	Art.	110274

This accessory is designed to meet the waterproof requirements of IP67.

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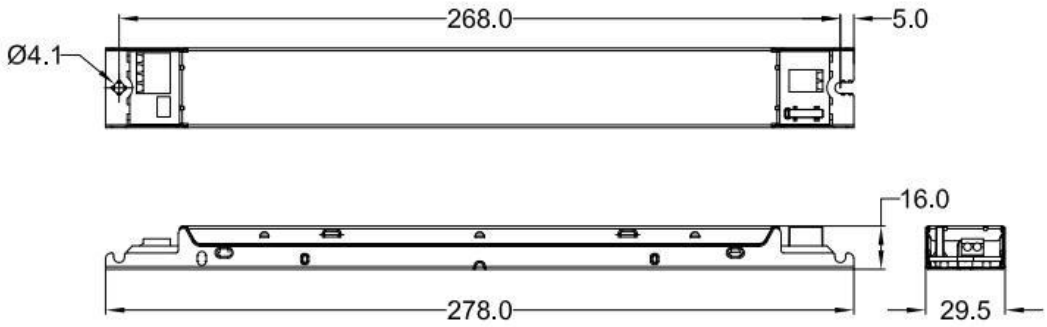
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Dimensions

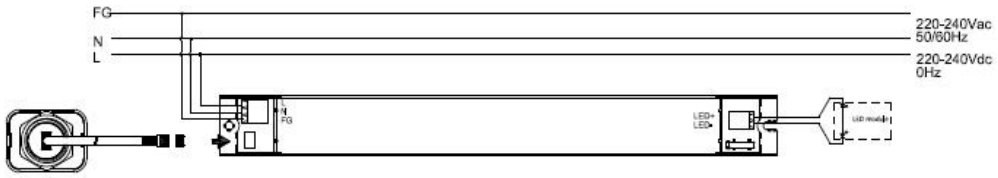
Housing dimensions	
Length (L)	278.0 mm
Width (W)	29.5 mm
Height (H)	16.0 mm

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

Packaging details	
Packing units	20 pcs
Carton size	299 x 128 x 103 mm
Carton weight	3.4 kg
Product weight	0.165 kg



Wiring diagram



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. 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 circuits.
- The recommended NFC communication distance：5 … 20 mm.

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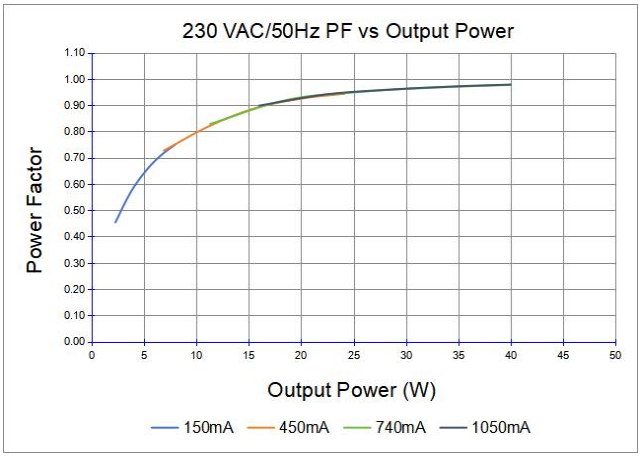
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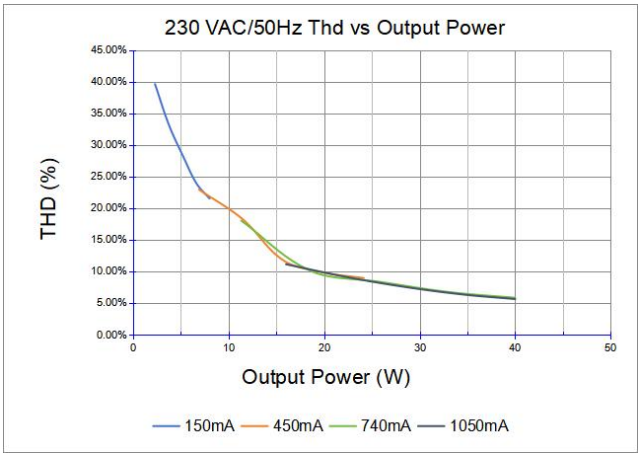
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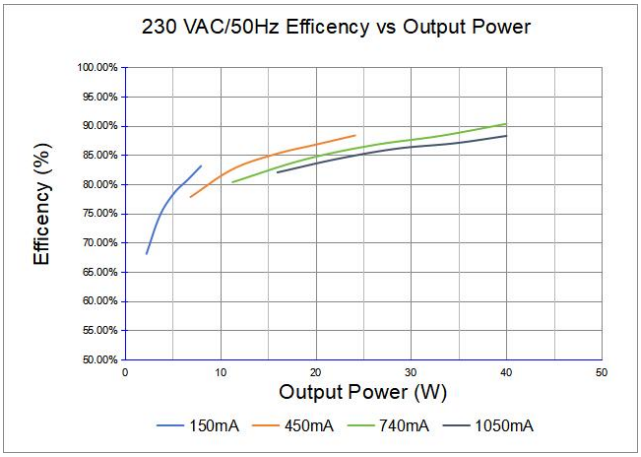
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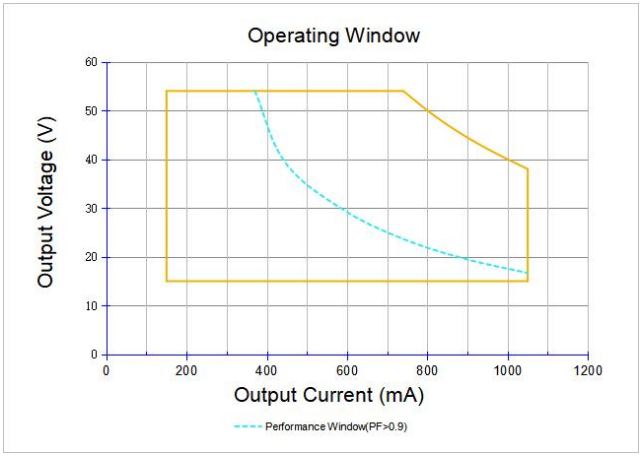
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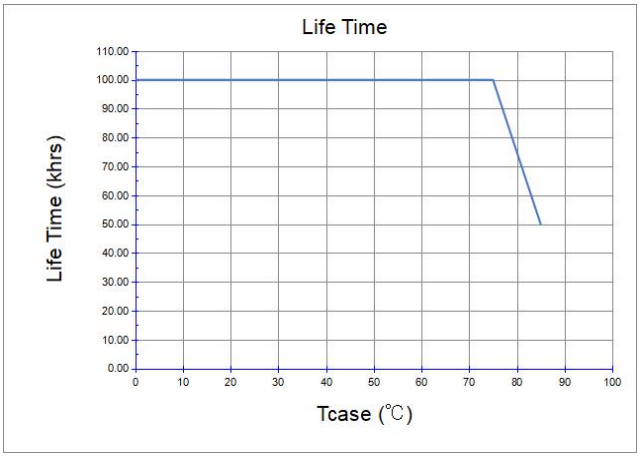
Technical information











at Tc 85 °C (0.2 % / 1,000 h failure rate)

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 40 W + 5 %.

Example of AOC settings

V LED (VDC)	AOC max	Pout (W)
54	150 mA	8.1
54	450 mA	24.3
54	740 mA	40.0
38	1,050 mA	39.9

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