

Product features

- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Constant lumen output (CLO)
- Output current 150...1050 mA
- Max. output power 40 W
- DC emergency
- Flicker-free, with a dimming range of 1...100% via an Skylink.
- Current output default value 100%
- For luminaires with protection class I
- 5 years warranty
- With anti glow function
- Packing unit programming: configure a large number of drivers in parallel via NFC
- The external antenna must be ordered separately



Product specifications

110502 ID ELNGB 40/230/150-1050 SKY NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150...1050 mA	220...240 Vac 220...240 Vdc	15...54 Vdc	89% (@ 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
Max. input voltage range	198...264 Vac
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
Max. DC voltage range	176...278 Vdc

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

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10%
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Output data

Output current tolerance	$\pm 5\%$ 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 V
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 mm ²
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: 150...1050 mA
Default current	150 mA
Output voltage range	15...54 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 15 A		Inrush current T _{width} : 25 μ s		
	MCB type	B10	C10	B16	C16
	Units	41	41	66	66

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

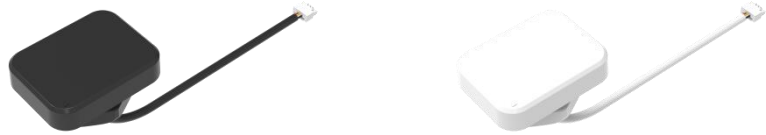
Environmental specifications

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 @ 230 Vac; at Tc 75°C: 100,000 hrs @ 230Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

CE	CCC	SAA
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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) - IP67 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.

Dimensions

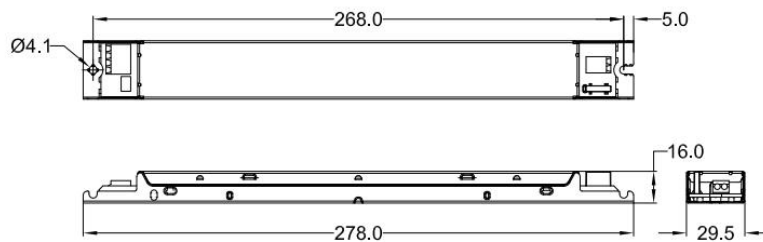
Housing dimensions

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

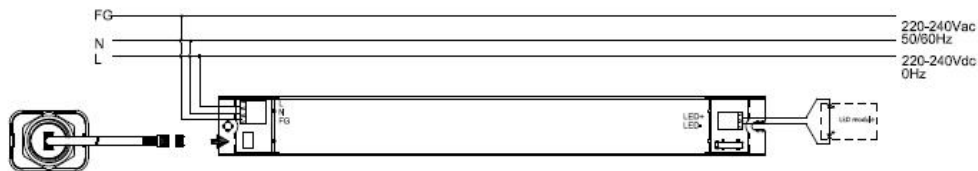
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	20 pcs
Carton size	299 x 128 x 103 mm
Carton weight	4.3 kg
Product weight	0.165 kg

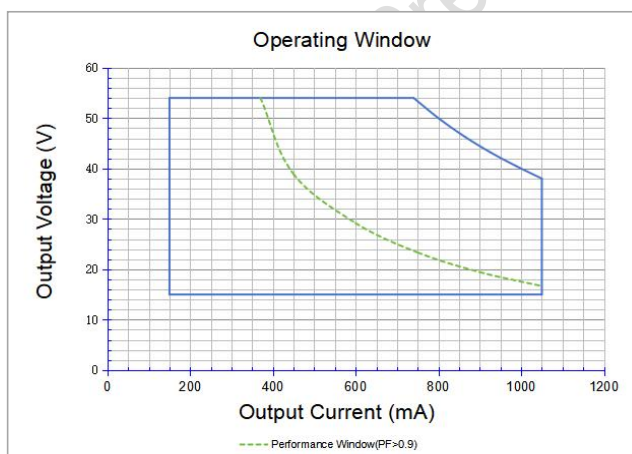
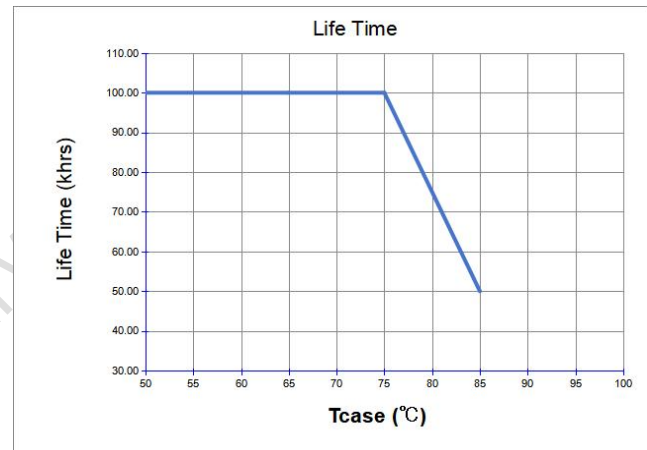
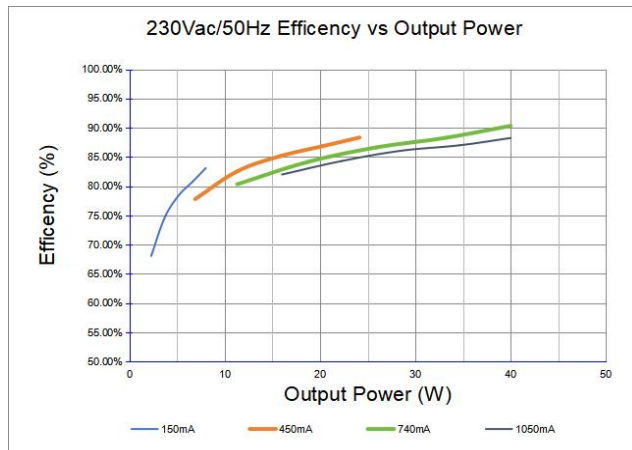
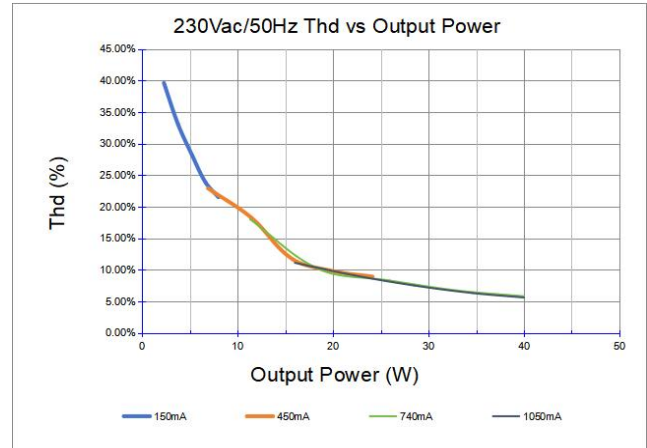
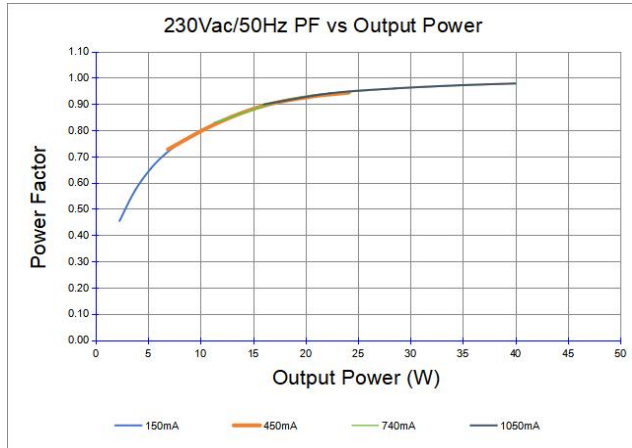


Wiring diagram



- 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 circuits.

Technical information



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	1050 mA	39.9