ID ELNCB 75/230/050-400 BH16 NFC ML

Art. 166954

M E S H L E

Product features

- Built-in non isolated adjustable power LED driver
- Current adjustment via NFC
- Constant lumen output(CLO)
- Supports i-Data function
- Output current 50…400 mA
- Max. output power 75 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Current output default value 100%
- For luminaires with protection class l
- 5 years warranty
- with anti glow function
- Packing unit programming: configure a large number of drivers in parallel via NFC

Product specifications

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Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
50…400 mA	220…240 Vac 220…240 Vdc	50…220 Vdc	92% (@ 187 V 400 mA)	± 5%	0.9 (Output Power > 20 W)	278 x 30 x 16

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	0.4 A @ 230 Vac & 0.4 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176…276 Vdc

Protection against voltage peaks

Withstand voltage	I/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	20%

Output data

Output current tolerance	± 5% 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	Bluetooth mesh current output decreased to 15% (programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 250 V
Overpower protection	The output power is less than or equal to 90 W
Short circuit protection	Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Dimming operation and interface

Standby power consumption	≤ 0.7 W
Dimming mode	AM dimming
Dimming method	Bluetooth mesh 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: 50…400 mA
Default current	50 mA
Output voltage range	50…220 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 29.4 A			Inrush current Twidth: 112 µs	
	MCB type	B10	C10	B16	C16
	Units	22	22	35	35

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

Environmental specifications

Operating temperature	-25… +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
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE

CCC

SAA

Dimensions

Housing dimensions

Length (L)	278 mm
Width (W)	30 mm
Height (H)	16 mm
Weight	/ kg

Packaging details

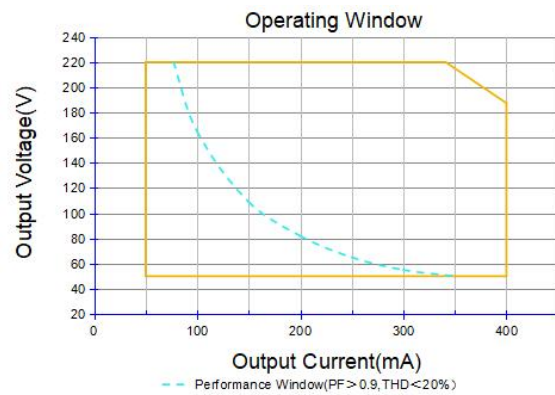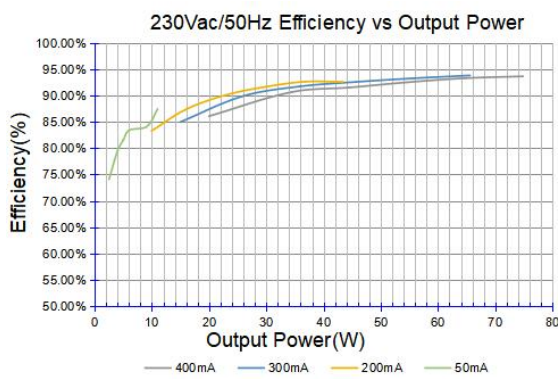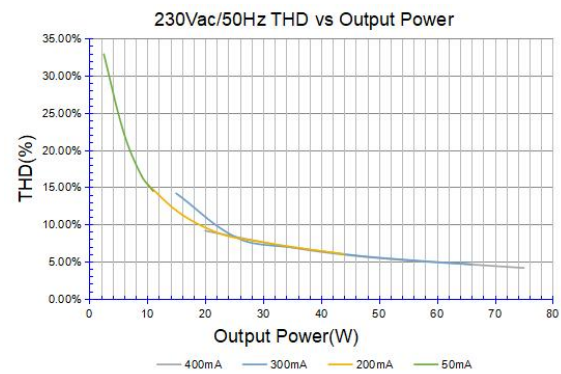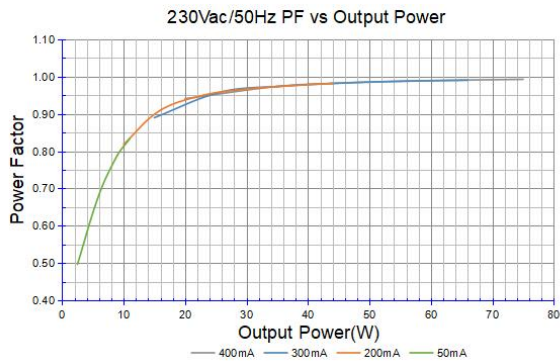|	
Packing units	20 pcs.
Carton size	299 x 128 x 103 mm
Weight	/ kg
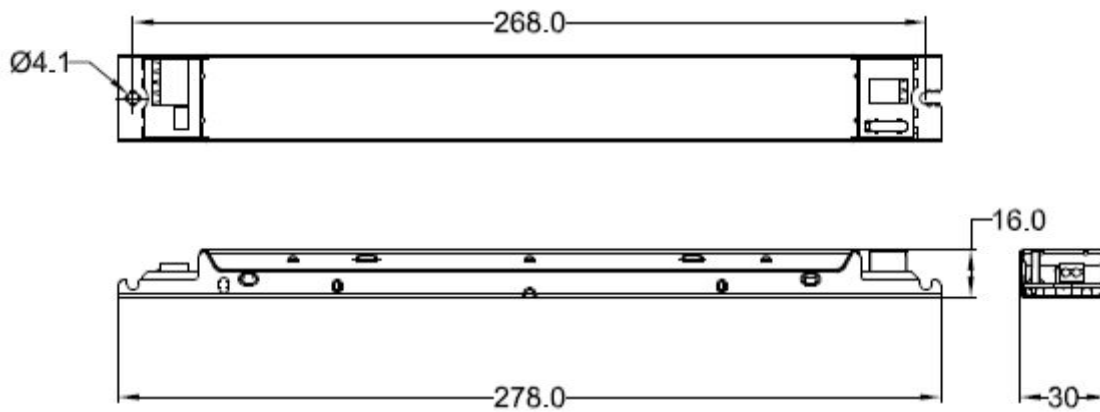
Wiring diagram
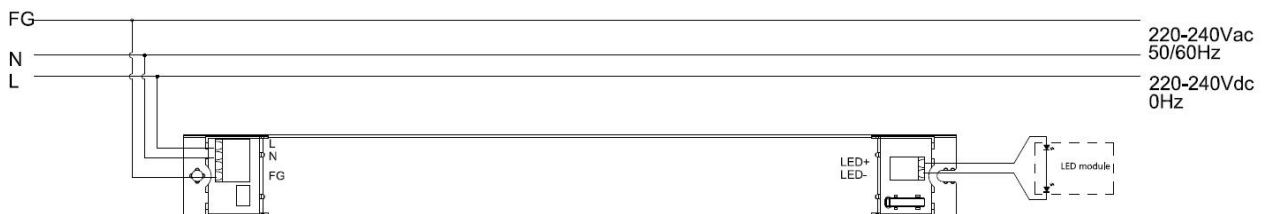
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.

Technical information

230Vac/50Hz PF vs Output Power

230Vac/50Hz THD vs Output Power

230Vac/50Hz Efficiency vs Output Power

Operating Window

Lifetime
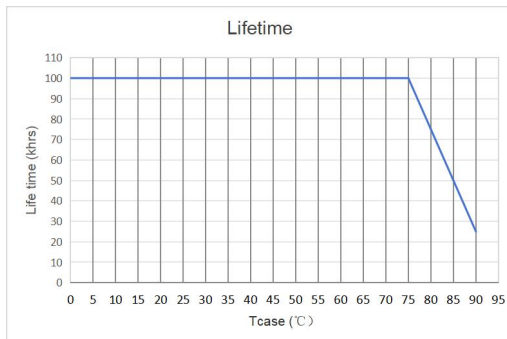
It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 75 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
220	340 mA	75
210	357 mA	75
200	375 mA	75
187.5	400 mA	75

Errors excepted. We reserve the right to make alterations in the interest of improving our products.