ID LCCB 75/230/700-2000 NFC FV1

Art. 160815

Product features

- Flicker-free LED driver
- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Output current 700…2000 mA
- Max. output power 75 W
- For luminaires with protection class I
- 5-year warranty

Product specifications

160815 ID LCCB 75/230/700-2000 NFC FV1

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
700…2000 mA	220…240 Vac 220…240 Vdc	15…54 Vdc	88%	± 5%	0.9	302x30x21

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	0.45 A @ 230 Vac

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

Protection against voltage peaks	
Withstand voltage	I/O: 3.0 kVac, I/FG: 1.5 kVac,O/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%

Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

version: 20240229-2.0

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

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 102 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	-

Connection terminals	
Connection terminal type	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: 700…2000 mA
Default current	700 mA
Output voltage range	15…54 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 24.5 A			Inrush current Twidth: 312 µs	
	MCB type	B10	C10	B16	C16
	Units	8	13	13	22

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.

Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

version: 20240229-2.0

ID LCCB 75/230/700-2000 NFC FV1

Art. 160815

Environmental specifications

Operating temperature	-20…+50°C
Storage temperature	-25…+85°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 80°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	80°C

Safety & EMC compliance

ENEC+CE
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 62384:2006/A1:2009
EN 55015:2019/A11:2020
EN 61000-3-2:2019
EN 61000-3-3:2013
EN 61547:2009
EN 300 330 v2.1.1:2017

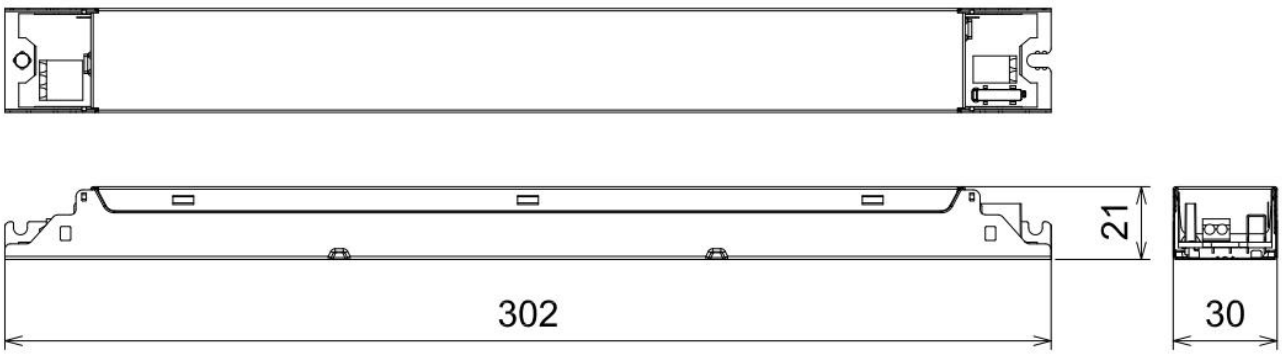
CCC

SAA
AS/NZS IEC 61347.2.13.2013
AS/NZS 61347.1:2016

Dimensions

Housing dimensions	
Length (L)	302 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.308 kg

Packaging details	
Packing units	40 pcs
Carton size	352 x 277 x 185 mm
Weight	12.5 kg

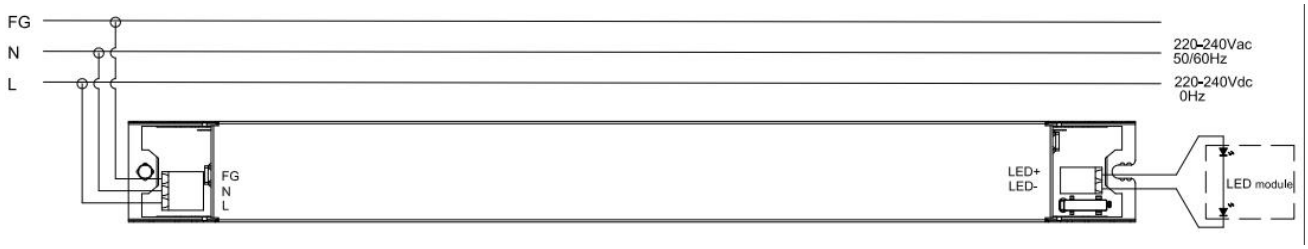


Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

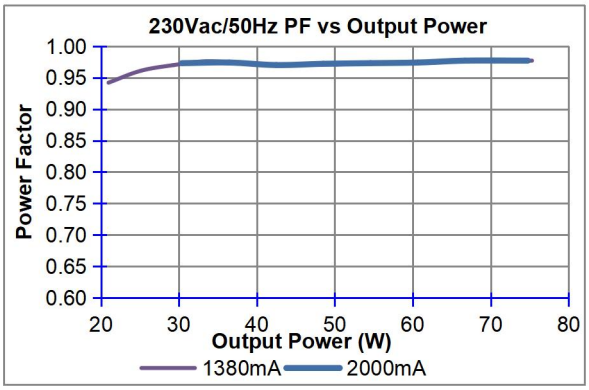
version: 20240229-2.0

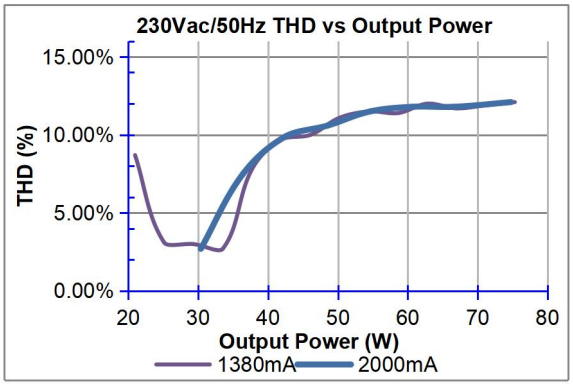
Wiring diagram

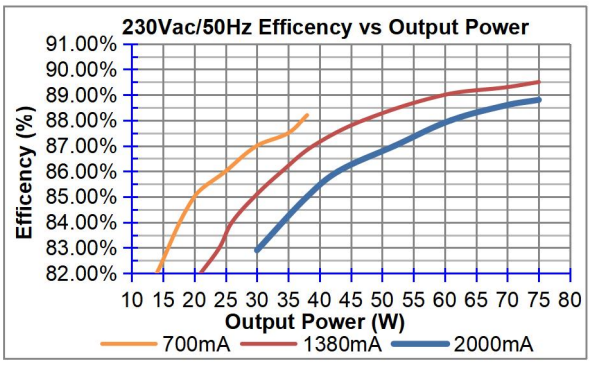


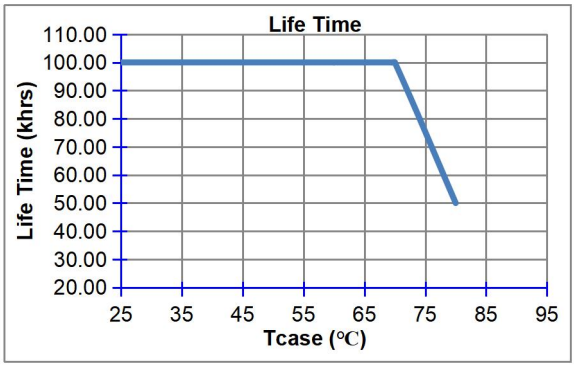
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

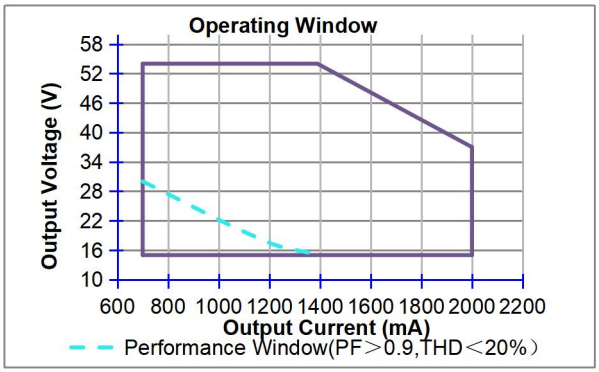
Technical information











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

Example of AOC settings

V_LED (Vdc)	AOC_max	P_out (W)
54	1390 mA	75
50	1500 mA	75
40	1875 mA	75
37	2000 mA	75

Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

version: 20240229-2.0