ID LCCB 100/230/1850-2200 DIP FV1

Art. 161638

Product features

- Flicker-free LED driver
- Built-in isolated adjustable power LED driver
- Current adjustment via DIP-switch
- Output current: 1850...2200 mA
- Max. output power 100 W
- For luminaires with protection class I
- 5-year warranty

Product specifications

161638 LCCB 100/230/1850-2200 DIP FV1

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
1850…2200 mA	220…240 Vac 220…240 Vdc	15…54 Vdc	89%	± 5%	0.9	358x30x21

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	0.6 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: 20240202-2.0

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 126 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	DIP-switch control adjusts the current: 1850 mA, 1900 mA, 1950 mA, 2000 mA, 2050 mA, 2100 mA, 2150 mA, 2200 mA
Default current	1850 mA
Output voltage range	15…54 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 31.9 A			Inrush current Twidth: 376 µs	
	MCB type	B10	C10	B16	C16
	Units	5	9	8	14

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: 20240202-2.0

Environmental specifications

Operating temperature	-20…+50°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
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

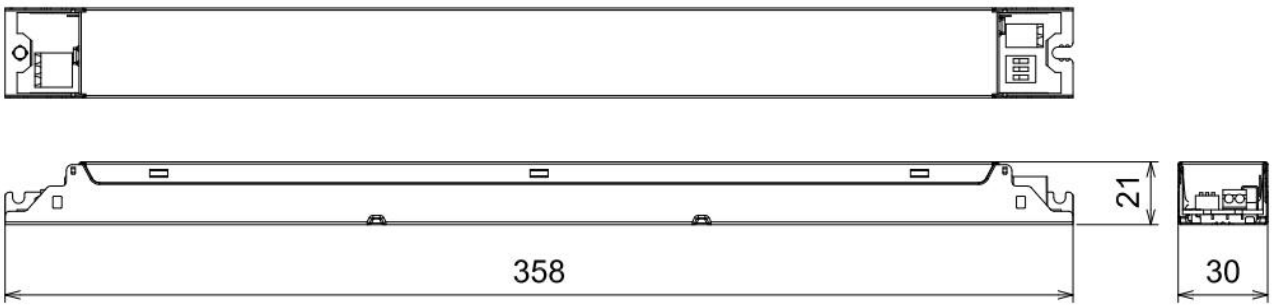
Dimensions

Housing dimensions

Length (L)	358 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.308 kg

Packaging details

Packing units	40 pcs
Carton size	377 x 310 x 115 mm
Weight	12.5 kg

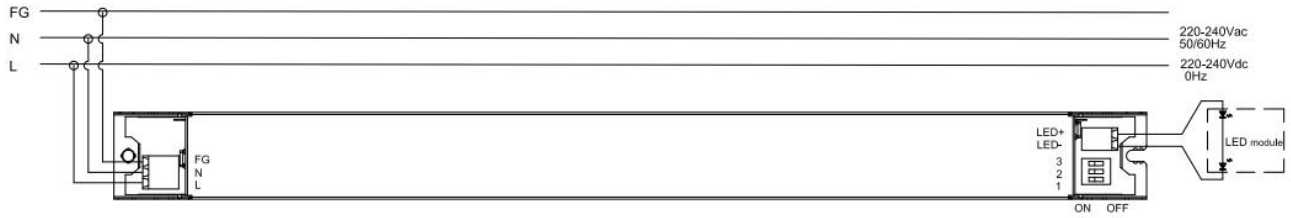


Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

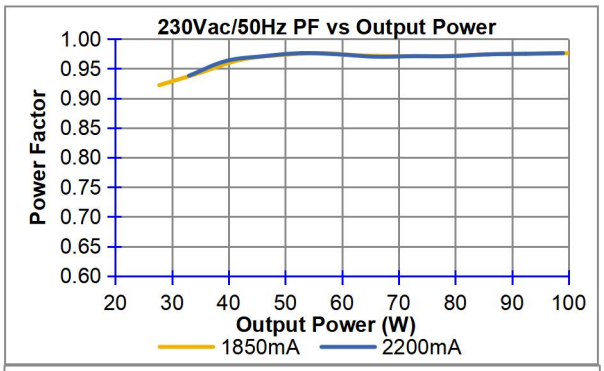
version: 20240202-2.0

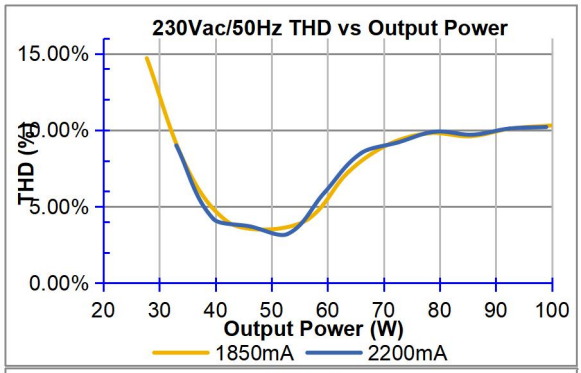
Wiring diagram

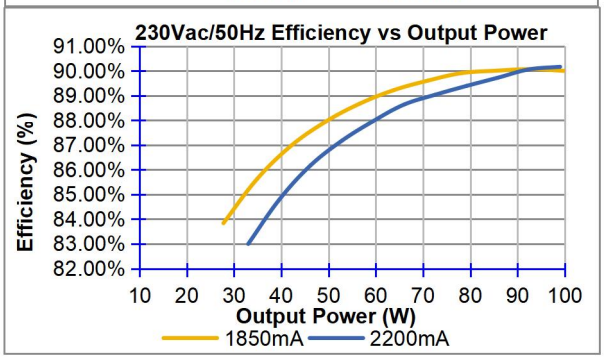


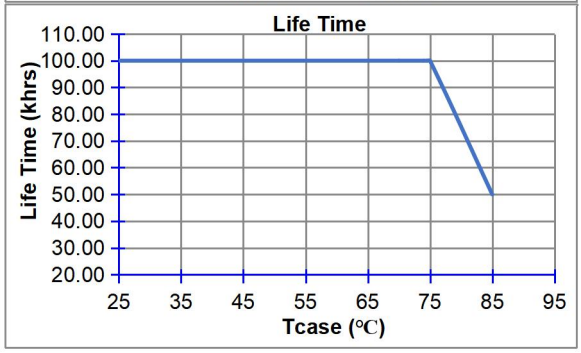
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected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

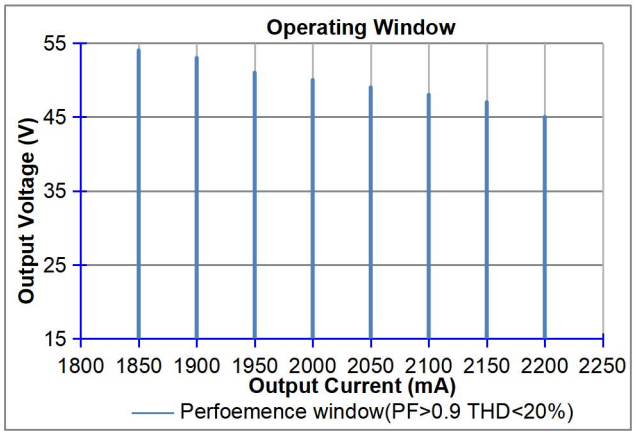
Technical information











It's important to set output current (AOC value) according to LEDs voltage, make sure the power is within 100W +5%

Adjustable output current with DIP-switch

Vout (V)	Pout (W)	Iout (mA)	1	2	3
15...54	100	1850	-	-	-
15...53	98.8	1900	-	-	ON
15...51	99.45	1950	-	ON	-
15...50	100	2000	-	ON	ON
15...49	100.45	2050	ON	-	-
15...48	98.7	2100	ON	-	ON
15...47	98.9	2150	ON	ON	-
15...45	99	2200	ON	ON	ON

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: 20240202-2.0