

Product features

- Flicker-free LED driver
- Supports DALI-2, push DIM
- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 500...1650 mA
- Max. output power 60 W
- Constant lumen output (CLO)
- For luminaires with protection class I
- 5 years warranty



Product specifications

160877 ID LCCB 60/230/500-1650 DALI NFC FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
500 mA	220...240 Vac 220...240 Vdc	15...54 Vdc	87.5%	± 5%	0.9	278 x 30 x 16
1100 mA		15...54 Vdc	89.5%			
1300 mA		15...46 Vdc	88.5%			
1650 mA		15...36 Vdc	87%			

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
Performance / Operational safety	47...63 Hz
Max. input current	0.35A @ 230 Vac & 0.35 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...276 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60 sec; I/P-DA: 1.5 kVac, < 5 mA 60 sec I/p-O/p: 3.75 kVac, < 5 mA 60 sec, O/P-DA: 1.5 kVac, < 5 mA 60 sec O/p-FG: 1.5 kVac, < 5 mA 60S sec, DA-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L/N-FG: 2 kV per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 20%
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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

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 66 W
Short circuit protection	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

Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%~100% (5...1650 mA)
Standby power consumption	≤ 0.3 W

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
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Operating data

Output current range	NFC control adjusts the current: 500...1650 mA
Default current	500 mA
Output voltage range	15...54 Vdc
Noise level	< 20 dB, at full load @100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 6.5 A			Inrush current Twidth: 56 µs	
	MCB type	B10	C10	B16	C16
	Units	27	27	43	43

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.

Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-40...+80°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs @ 230Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE
EN 61347-1:2015/A2021
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020
EN 300 330 V2.1.1:2017
EN 62479:2010
EN 50663:2017
EN 301 489-1 V2.2.3:2019
EN 301 489-3 V2.1.1:2019
EN IEC 55015:2019/A11:2020
EN 61547:2009
EN IEC 6100-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014/A1:2017
EN 62493:2015

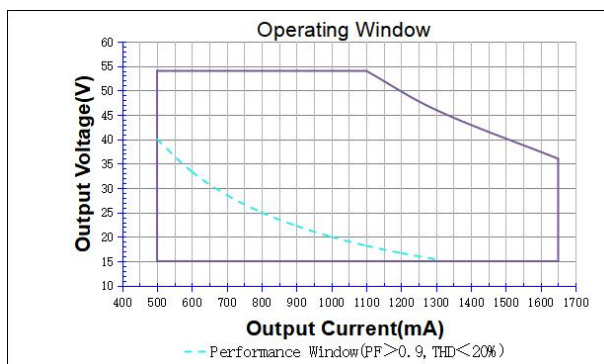
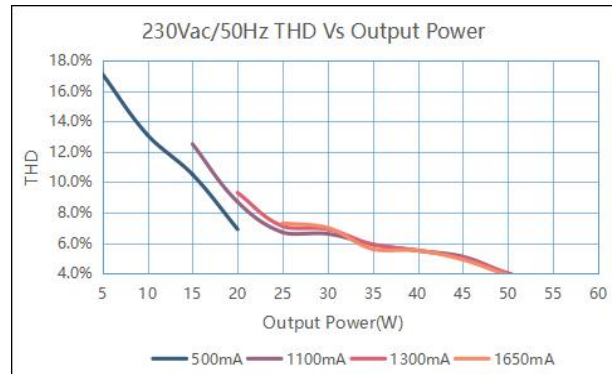
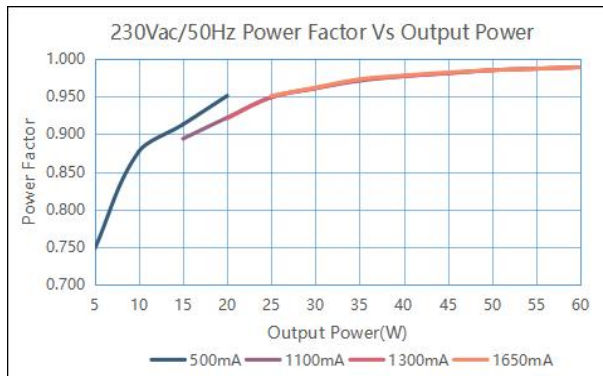
CCC
GB 17625.1-2012
GB/T 17743-2021
GB 19510.1-2009
GB 19510.14-2009

SAA
AS 61347.2.13:2018
AS/NZS 61347.1:2016+A1

DALI-2 Acc. to EN 62386
Acc. to IEC 62386-101:Ed2
Acc. to IEC 62386-102:Ed2
Acc. to IEC 62386-207:Ed1
Acc. to IEC 62386-251:Ed2
Acc. to IEC 62386-252:Ed2
Acc. to IEC 62386-253:Ed2

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

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 60 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	500 mA	27
54	1100 mA	60
46	1300 mA	60
36	1650 mA	60