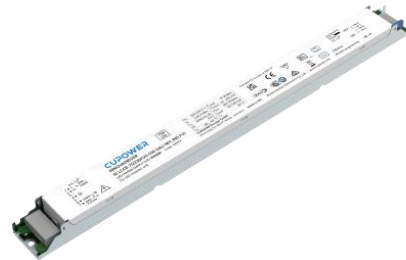


Product features

- Built-in non isolated adjustable power LED driver
- Supports DALI-2, push DIM
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 125...550 mA
- Max. output power 75 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Constant lumen output (CLO)
- For luminaires with IEC protection class I
- 5 years warranty



Product specifications

160914 ID LCCB 75/230/125-550 DALI NFC IND FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
125...550 mA	220...240 Vac 220...240 Vdc	64...290 Vdc	93.5% (@ 290 V 260 mA)	± 5%	0.9 (Output power > 25 W)	358.0 x 30.0 x 21.0

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	0.40 A @ 230 Vac & 0.40 A @ 230 Vdc

Battery operation

DC voltage range	198...276 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
Mains surge immunity	L-N 4 kV, L-FG 4 kV, N-FG 4 kV per IEC 61000-4-5
Control interface surge immunity	DA-DA 1 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	$\pm 5\%$ at rated input voltage range
No load output voltage	≤ 300 Vdc
Ripple output current	5%
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage
DC emergency level	DALI current output decreased to 15% (programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 300 V
Overpower protection	The output power is less than or equal to 90 W
Short circuit protection	Standby mode. When short circuit triggers the protection device, the prototype enters the standby mode, and the controller needs to send instructions to restore.

Dimming operation and interface

Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming range	1%...100% (1.25...550 mA)
Standby power consumption	< 0.3 W

Connection terminals

Connection terminal type	0° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm ² ; Output wire: 0.2...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: 125...550 mA
Default current	125 mA
Output voltage range	64...290 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 10.2 A			Inrush current Twidth: 360 µs	
	MCB type	B10	C10	B16	C16
	Units	23	36	23	36

Environmental specifications

Operating temperature	-40...+65°C
Storage temperature	-40...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE
EN 61347-1:2015/A1:2021
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 61000-3-2:2019/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

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

Dimensions

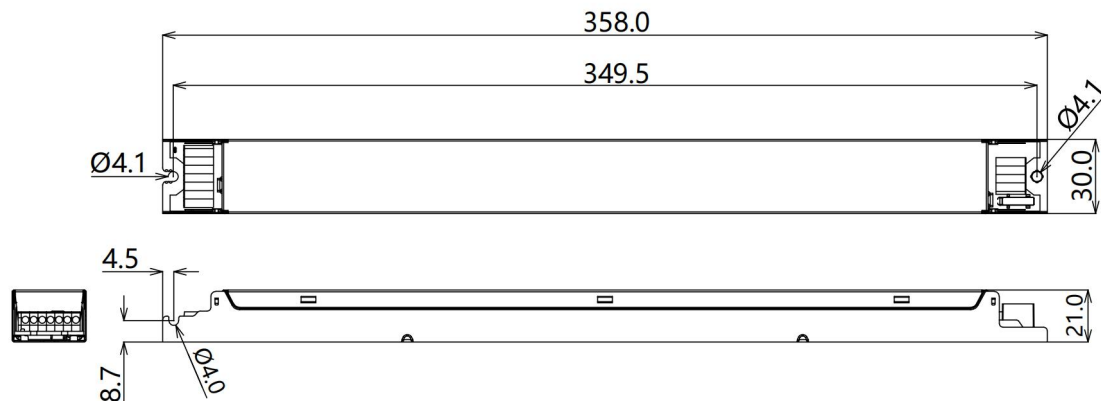
Housing dimensions

Length (L)	358.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

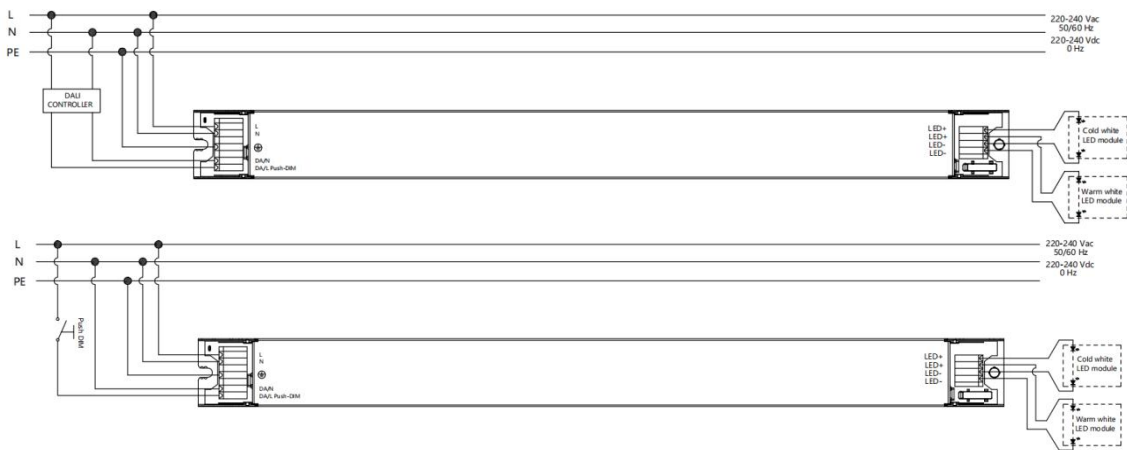
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	20 pcs
Carton size	381 x 128 x 128 mm
Carton weight	6.0 kg
Product weight	0.263 kg



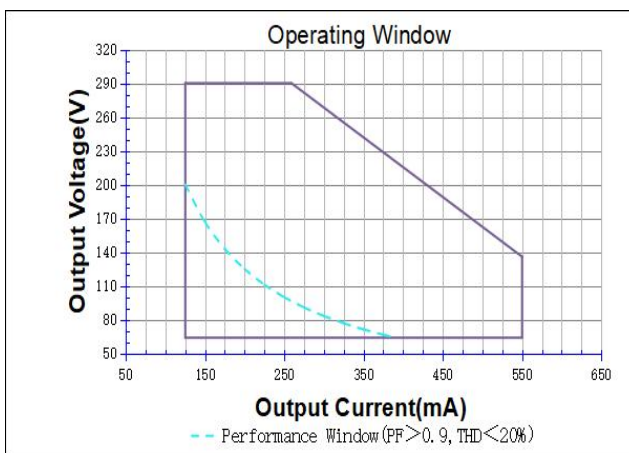
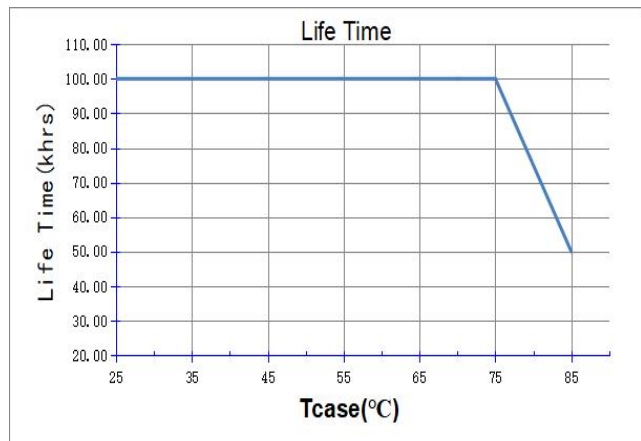
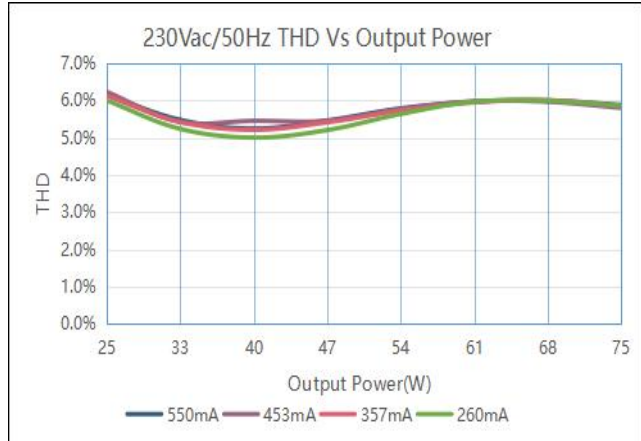
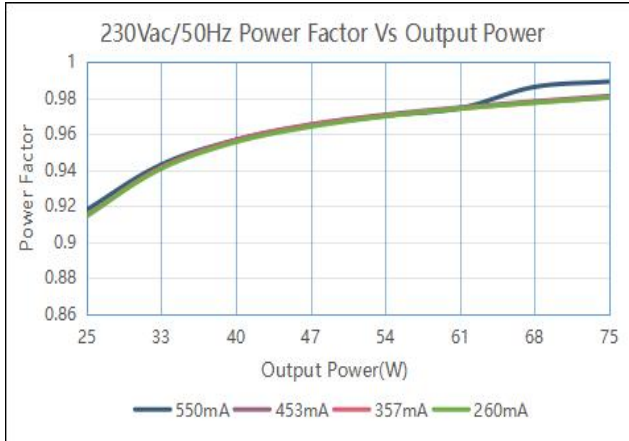
Wiring diagram



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.
- 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 75 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
136	550 mA	75
200	375 mA	75
250	300 mA	75
290	260 mA	75