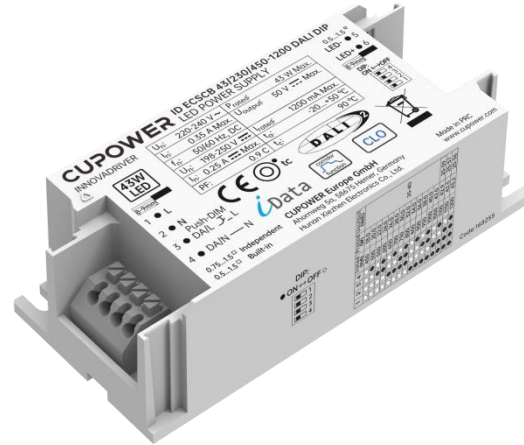


Product features

- Stand alone type Dimmable adjustable output power LED driver
- Supports DALI-2, push DIM
- Supports i-Data function (DALI part 251, 252, 253)
- Flicker free LED driver, DALI-2 certified incl. Parts 251, 252, 253
- Output current: 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA, 750 mA, 800 mA, 850 mA, 900 mA, 950 mA, 1000 mA, 1050 mA, 1100 mA, 1150 mA, 1200 mA
- Max. output power 43 W
- Constant lumen output (CLO)
- For luminaries with protection class I, II
- 5-year warranty



Product specifications

168255 ID ECSCB 43/230/450-1200 DALI DIP

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension L x W x H (mm)
450...1200 mA	220...240 Vac 220...240 Vdc	25...40 Vdc	89%	± 5%	0.9 (@ 14...43 W)	97 x 43 x 30

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	0.35 A @ 230 Vac

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...280 Vdc

Protection against voltage peaks

Withstand voltage	I/p-O/p: 3.75 kVac, < 5 mA 60 sec; I/p-DA/p: 1.5 kVac, < 5 mA 60 sec; O/p-DA/p: 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	15%
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Output data

Output current tolerance	± 5% at rated input voltage range
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No load output voltage	≤ 50 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	Current output decreased to 15 % (programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 50 V
Overpower protection	The output power is less than or equal to 47 W
Short circuit protection	Short circuit protection: Protection device will trigger when short circuit and will auto recover after the fault mode is removed

Dimming operation and interface

Standby power consumption	≤ 0.5 W
Dimming mode	DALI-2, push DIM
Dimming method	Amplitude dimming
Dimming current range	1%...100%

Connection terminals

Connection terminal type	Push in terminal
Wire cross section	Primary side: Built-in 0.5...1.5 mm ² , Independent 0.75...1.5 mm ² Secondary side: 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	DIP control adjusts the current: 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA, 750 mA, 800 mA, 850 mA, 900 mA, 950 mA, 1000 mA, 1050 mA, 1100 mA, 1150 mA, 1200 mA
Default current	450 mA
Output voltage range	25...40 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 3.26 A			Inrush current Twidth: 34 μ s	
	MCB type	B10	C10	B16	C16
	Units	38	38	60	60

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.

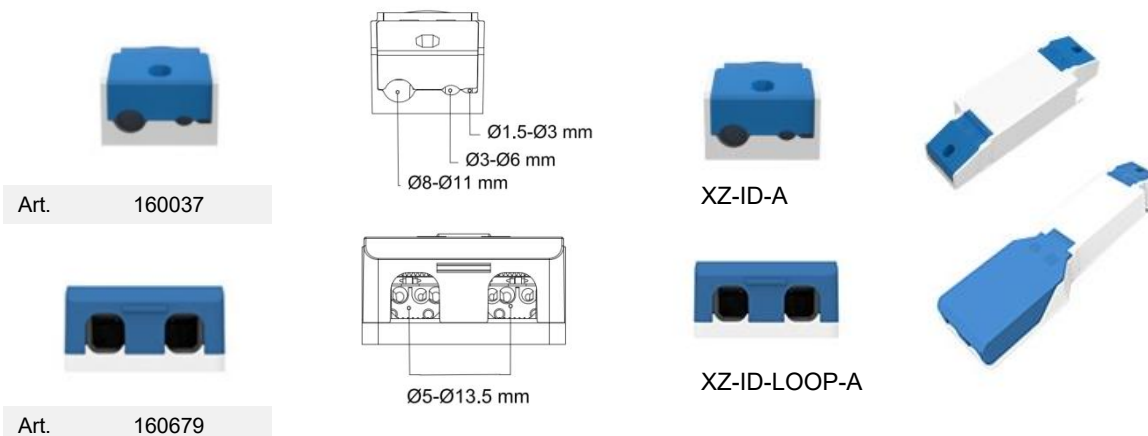
Environmental specifications

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

Safety & EMC compliance

ENEC+CE	CCC	SAA
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Accessories (optional)



Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-A	38	34	30
XZ-ID-LOOP-A	107	57	30
Driver incl. 2 x XZ-ID-A	143	43	30
Driver incl. XZ-ID-A + XZ-ID-LOOP-A	212	57	30

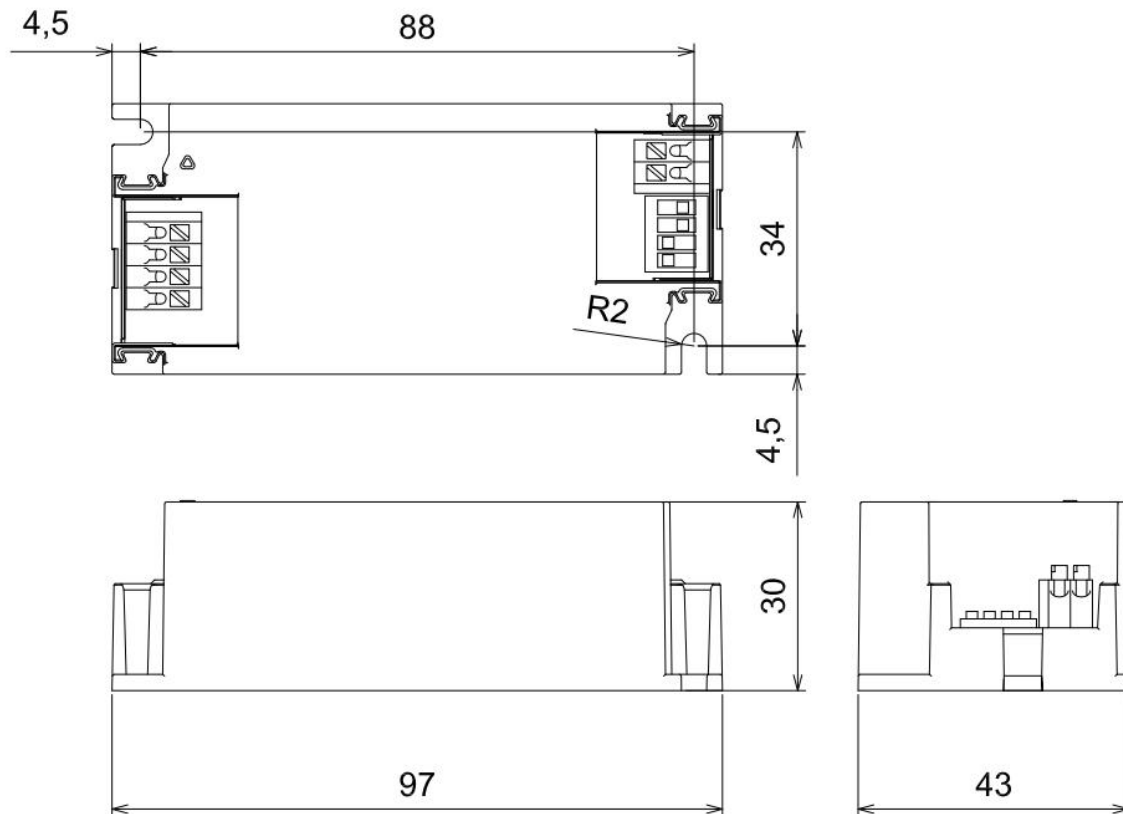
Dimensions

Housing dimensions

Length (L)	97 mm
Width (W)	43 mm
Height (H)	30 mm
Weight	0.14 kg

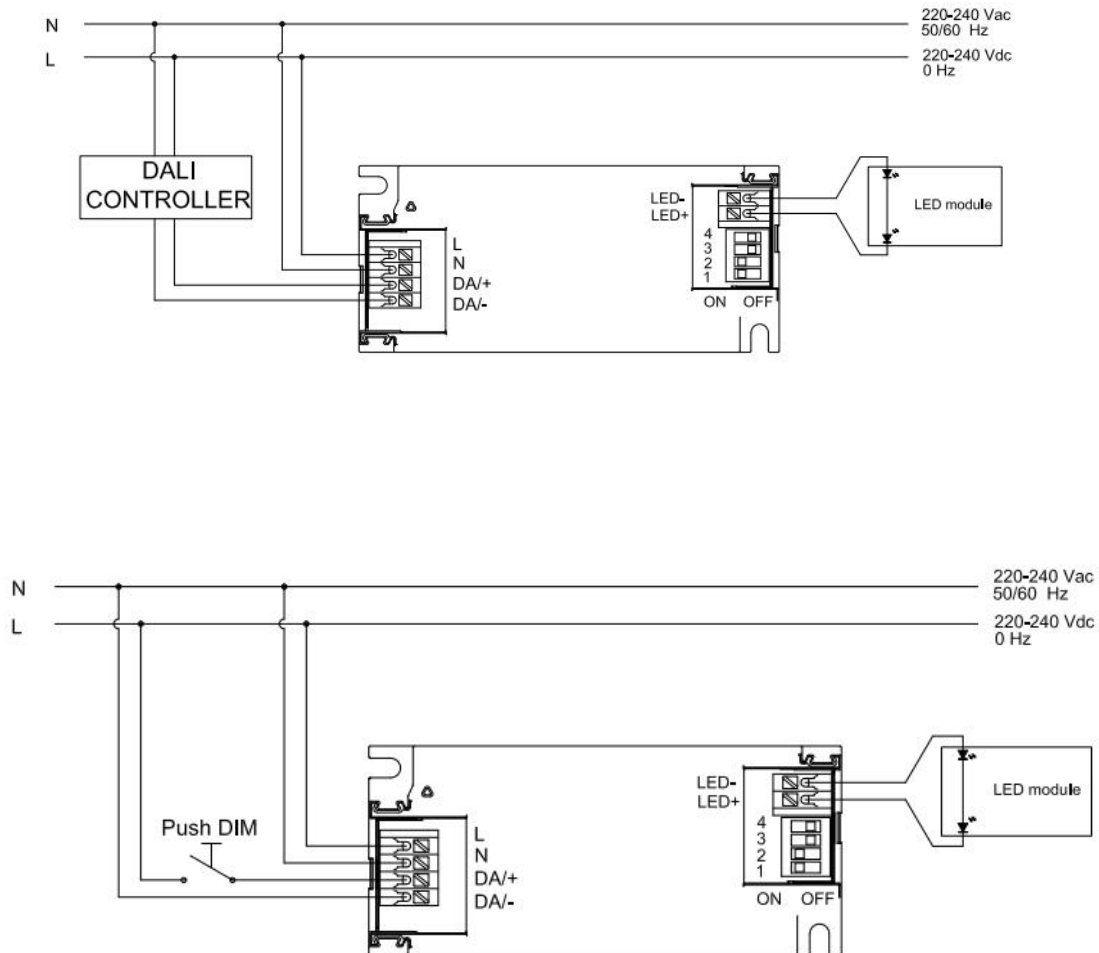
Packaging details

Packing units	45 pcs.
Carton size	303 x 225 x 120 mm
Weight	6.8 kg



unit: mm
Tol: ± 0.5 mm

Wiring diagram

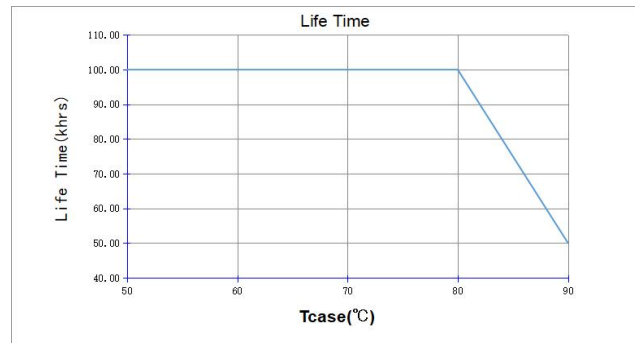
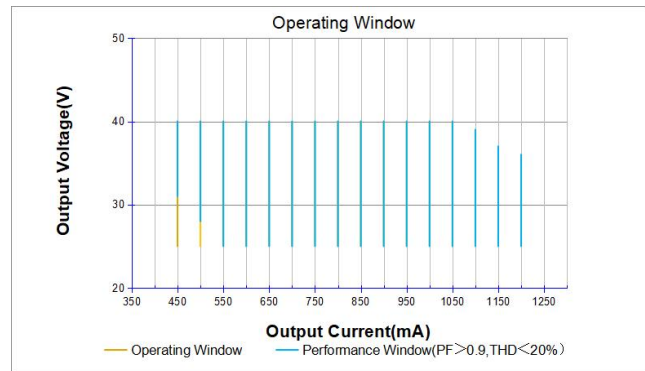
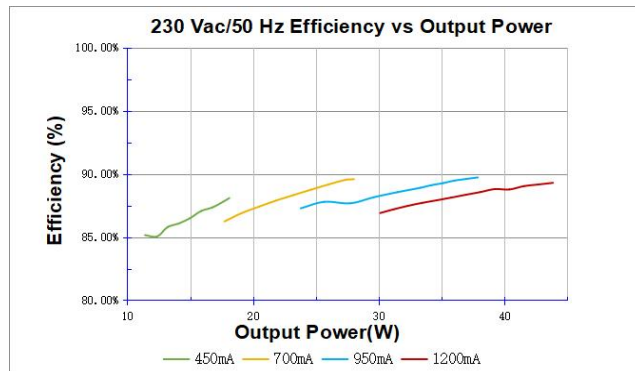
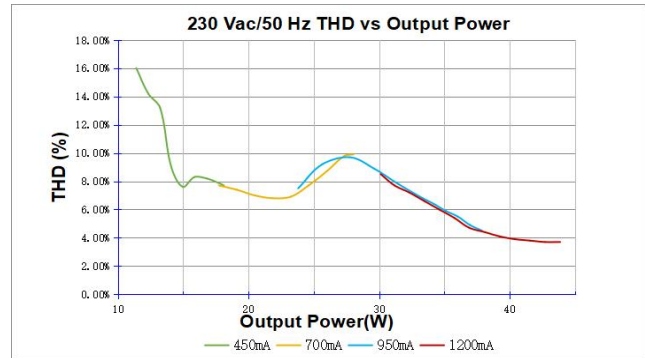
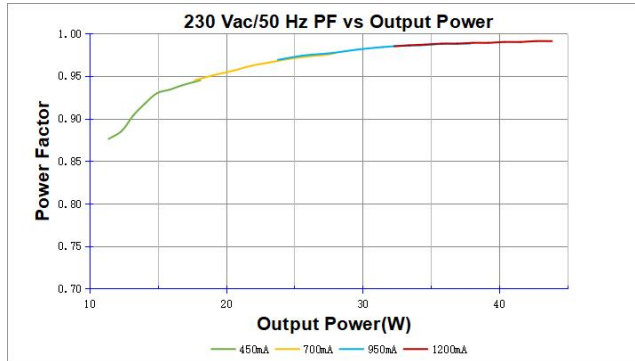


- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Adjustable output current with DIP switch

Vout (V)	Pout (W)	Iout (mA)	1	2	3	4
25-40	18.0	450	-	-	-	-
25-40	20.0	500	-	-	-	ON
25-40	22.0	550	-	-	ON	-
25-40	24.0	600	-	-	ON	ON
25-40	26.0	650	-	ON	-	-
25-40	28.0	700	-	ON	-	ON
25-40	30.0	750	-	ON	ON	-
25-40	32.0	800	-	ON	ON	ON
25-40	34.0	850	ON	-	-	-
25-40	36.0	900	ON	-	-	ON
25-40	38.0	950	ON	-	ON	-
25-40	40.0	1000	ON	-	ON	ON
25-40	42.0	1050	ON	ON	-	-
25-39	42.9	1100	ON	ON	-	ON
25-37	42.5	1150	ON	ON	ON	-
25-36	43.2	1200	ON	ON	ON	ON

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 43 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
39	1100 mA	42.9
37	1150 mA	42.5
36	1200 mA	43.2