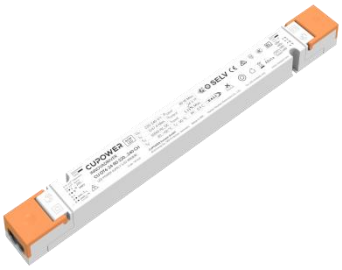
CUPOWER

CU-DT8-24-80-220...240-TW

Art. 161409

Product features

- Constant voltage LED driver
- Support DALI-2 push dimming, push CCT control
- Supports i-Data function (DALI part 251, 252, 253)
- DT8 (Tunable White) driver
- Max. output current 3.33 A
- Max. output power 80 W
- DC emergency
- For luminaires with IEC protection class I, II
- Removable strain reliefs included
- 5 year warranty



Product specifications

161409 CU-DT8-24-80-220...240-TW

Output current	Input voltage	Output voltage	Efficiency @ full load	Voltage accuracy	Power factor	Dimension L x W x H (mm)
0.33 … 3.33 A	220 … 240 VAC 220 … 240 VDC	24 VDC	89 %	±3 %	0.9	309.0 x 33.0 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	0.47 A @ 230 VAC & 0.47 A @ 230 VDC

Battery operation	
DC voltage range	220 … 240 VDC; performance range
Max. DC voltage range	198 … 276 VDC; operational safety range

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3.75 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV IEC 61000-4-5
Control interface surge immunity	DA - DA, CS - N 1 kV per IEC 61000-4-5

Total harmonic distortion (THD)	
At rated input voltage range @ full load	≤ 10 %

Output data	
Output voltage tolerance	±3 % at rated input voltage range
No load output voltage	24 VDC

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Output PWM frequency	4,000 Hz
Ripple output current	1 % (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 %

Protection functions output side

Overvoltage protection	Over current protection: Hiccup mode. Protection device will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.
Overpower protection	The output power is less than or equal to 115 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

Standby power consumption	< 0.3 W
Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming voltage range	0.1 … 100 %

Connection terminals

Wire cross section mains input	Built-in: 0.5 … 2.5 mm² stranded and solid-core; Independent: 0.75 … 2.5 mm² stranded and solid-core
Wire cross section control input	Built-in: 0.5 … 2.5 mm² stranded and solid-core ; Independent: 0.75 … 2.5 mm² stranded and solid-core
Wire cross section output	0.5 … 1.5 mm² stranded and solid-core
Wire stripping length	5 … 6 mm

Degree of protection

Protection rating	IP20

Operating data

Connection terminal type	Input: 45° push in terminal; Output: 0° push in terminal
Maximum output current	3.33 A
Output power range (P_rated)	8 … 80 W
Output voltage range	24 VDC
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 20.6 A		Inrush current Twidth: 382 µs		
	MCB type	B10	C10	B16	C16
	Units	12	20	20	32

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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 … +85 °C
Working humidity	10 … 90 %
Storage humidity	5 … 90 %
Lifetime	at Tc 90 °C: 50,000 h; at Tc 80 °C: 100,000 h; @ 230 VAC
Maximum Tc temperature	90 °C

Safety & EMC compliance

ENEC+CE
EN IEC 55015
EN IEC 61547
EN IEC 61000-3
EN 61000-3
EN 61347-1
EN 61347-2
EN IEC 62384
EN 61347-1
EN 61347-2
EN 62493

CCC
GB 17625
GB 17743
GB 19510
GB 19510.14

SAA
AS 61347.2
AS/NZS 61347.1+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
Acc. to IEC 62386-101:Ed2

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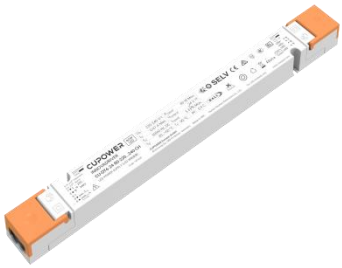
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Accessories



Art. 163519 XZ-CU-A



Driver incl: 2*XZ-CU-A

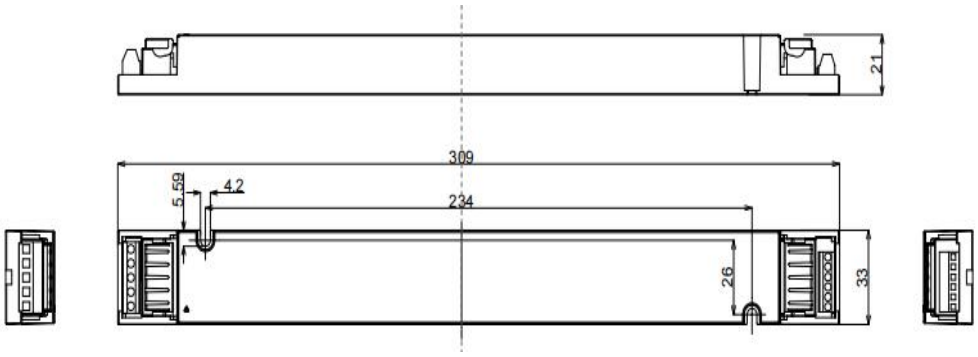
Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-CU-A	43.2	33	21
Driver incl: 2*XZ-CU-A	345	33	21

Dimensions

Housing dimensions	
Length (L)	309.0 mm
Width (W)	33.0 mm
Height (H)	21.0 mm

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

Packaging details	
Packing units	25 pcs
Carton size	310 x 175 x 140 mm
Carton weight	5.15 kg
Product weight	0.18 kg



Recommended mounting screw type M4

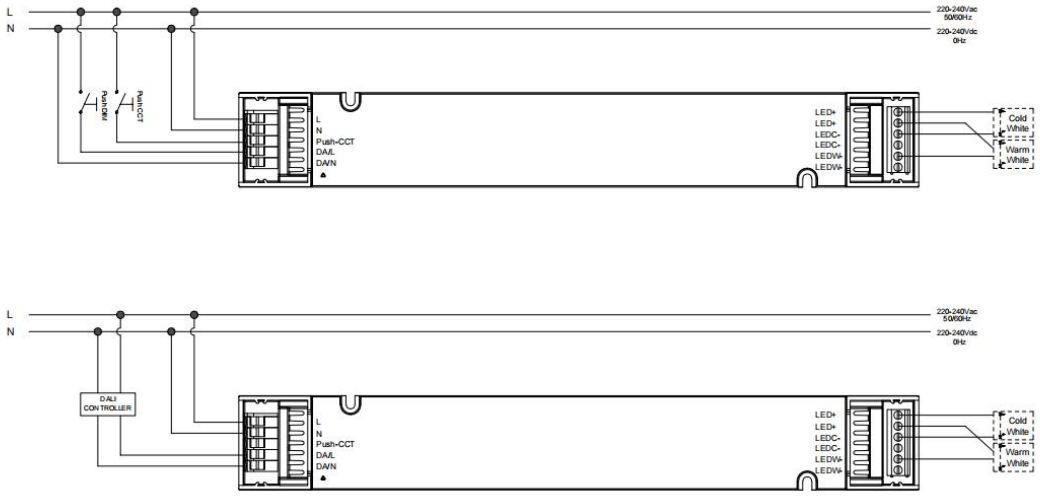
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Wiring diagram



- 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 circuits.
- For the PUSH DIM instruction manual, please refer to the link: CUPOWER PUSH DIM Manual
- For the Corridor Function instruction manual, please refer to the link: CUPOWER Corridor Function Manual

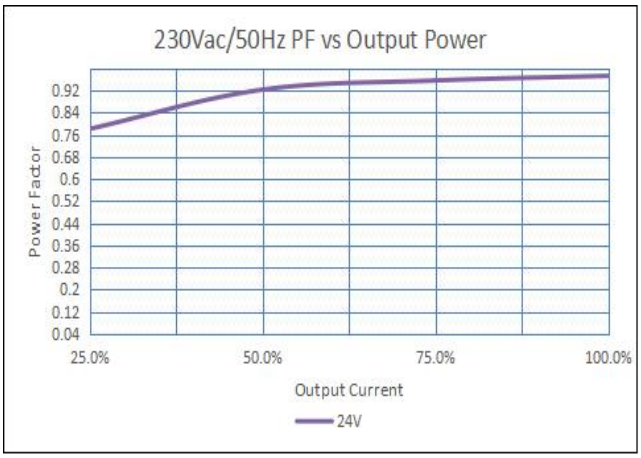
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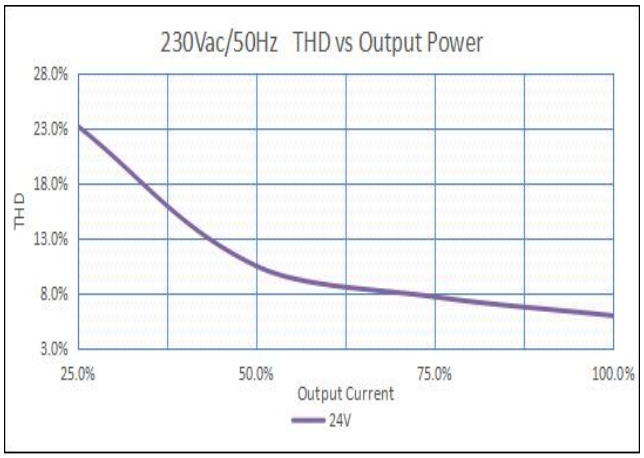
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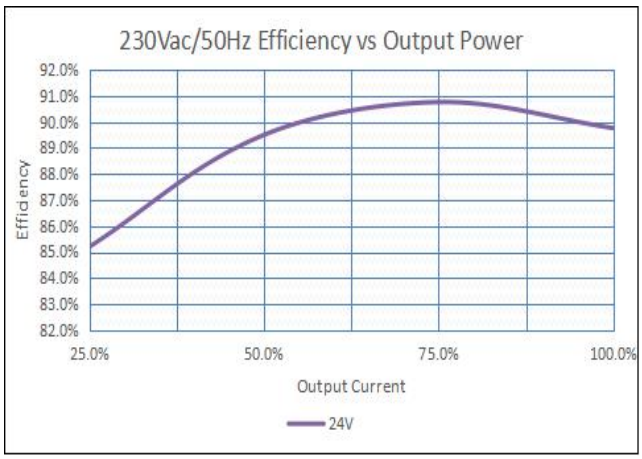
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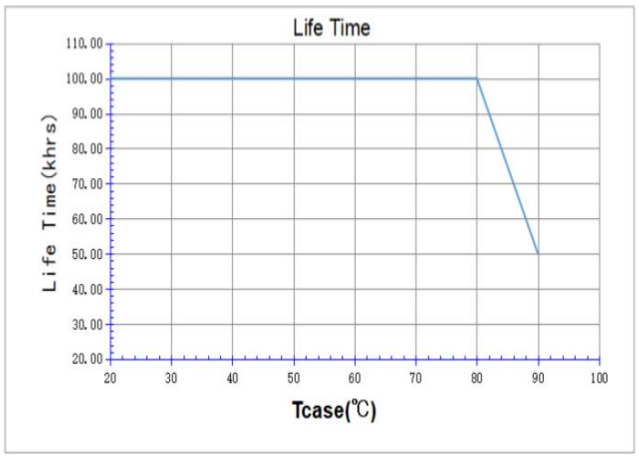
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Technical information









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