ID ECSCI 16/230/200-400 DT6 DIP CCT

Art.169238

Product features

- Isolated adjustable power LED driver
- Constant lumen output (CLO)
- Current adjustment via DIP Switch
- Output current 200 … 400 mA
- Max. output power 16.8 W
- DC emergency
- Flicker-free, dimming range 1 … 100 % (amplitude dimming)
- Current output default value 100 %
- For luminaires with protection class I, II
- Anti-glow



Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
200 … 400 mA	220 … 240 VAC 220 … 240 VDC	9 … 42 VDC	87 % (@ 42 V 400 mA)	± 5 %	0.9 (Output Power >7 W @ 230 VAC 50 Hz)	140.0 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
Max. input current	0.09 A @ 230 VAC & 0.09 A @ 230 VDC

Battery operation	
DC voltage range	220 … 240 VDC; performance range
Max. DC voltage range	176 … 280 VDC; operational safety range

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3 kVac,< 5 mA 60 sec, I/p-Da: 1.5 kVac, < 5 mA 60 sec, O/p-Da: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV per IEC 61000-4-5

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

Output data	
Output current tolerance	± 5 % at rated input voltage range
No load output voltage	≤ 50 VDC
Ripple output current	5 % (ripple = peak/average total 100 Hz)

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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 18 W
Short circuit protection	Short circuit protection is designed to turn off the output and cannot be automatically restored. After removing the short circuit, the output can be restored by one of the following two operations: • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.

Dimming operation and interface

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

Connection terminals

Connection terminal type	Input terminal: 45°, Output terminal: 0°
Wire cross section	Input wire: 0.75 … 1.5 mm² ; Output wire: 0.2 … 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: 200 … 400 mA
Default current	200 mA
Output voltage range	9 … 42 VDC

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 9.5 A			Inrush current Twidth: 155 us	
	MCB type	B10	C10	B16	C16
	Units	72	106	115	170

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Environmental specifications

Operating temperature	-20 … +50 °C
Storage temperature	-25 … +85 °C
Working humidity	10 … 90 %
Storage humidity	5 … 95 %
Lifetime	at Tc 80 °C: 50,000 h @ 230 VAC (0.2 % / 1,000 h failure rate)
Maximum Tc temperature	80 °C

Safety & EMC compliance

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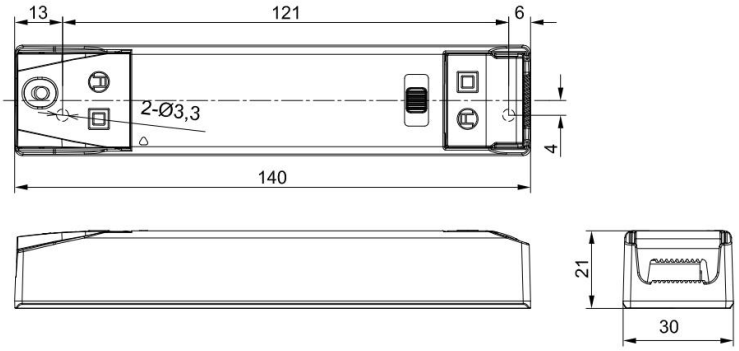
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Dimensions

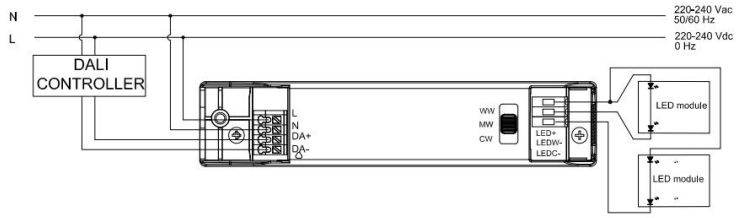
Housing dimensions	
Length (L)	140.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

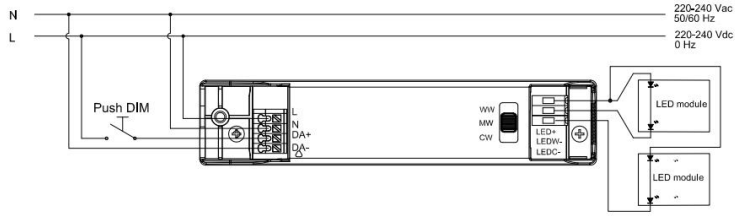
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details	
Packing units	60 pcs
Carton size	5.1 kg
Carton weight	310 x 150 x 162 mm
Product Weight	0.068 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. 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.
- The recommended NFC communication distance： 5 … 20 mm.
- 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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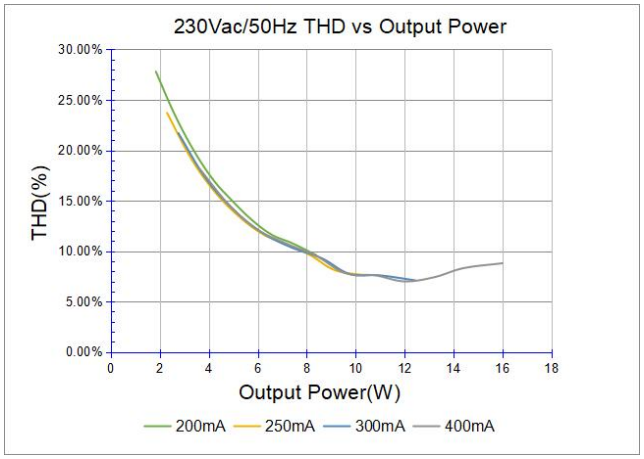
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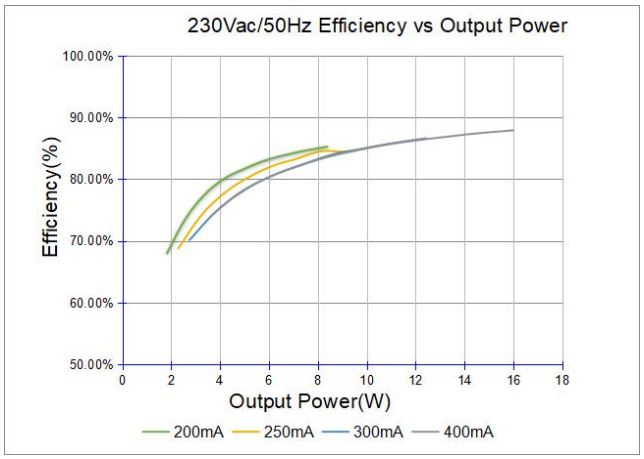
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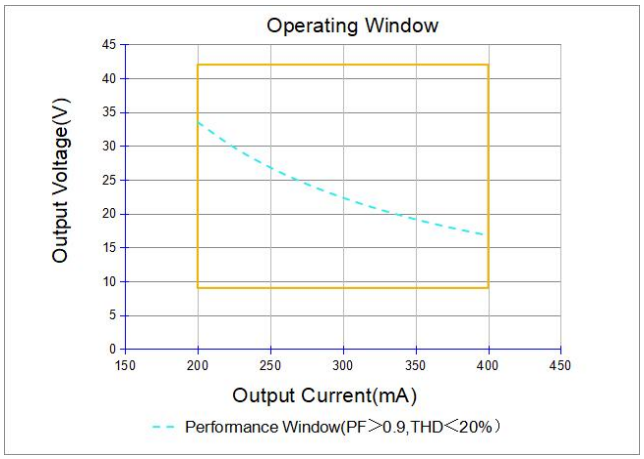
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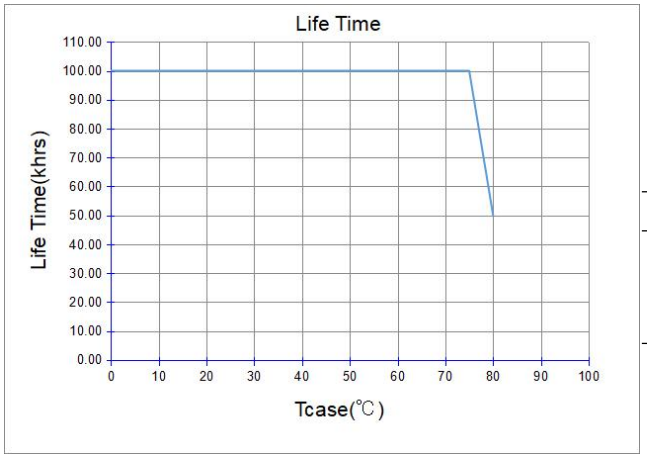
Technical information











at Tc 80 °C (0.2 % / 1,000 h failure rate)

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 16.8 W + 5 %.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
42	400 mA	16.8
42	300 mA	12.6
42	200 mA	8.4

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