

Product features

- Flicker-free LED driver
- Output current 100 ... 250 mA by DIP switch adjust
- DC emergency
- Max. output power 10 W
- Current output default value 100 mA
- For luminaires with protection class I, II
- 5 years warranty



Product specifications

165841 ID ECSCI 10/230/100-250 DIP

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor @full load	Dimension LxWxH (mm)
100 mA	220...240 Vac 220...240 Vdc	21...40 Vdc	70%	± 7%	0.9C	L93*W36*H24.5
150 mA			82%		0.95	
200 mA			84%	± 5%	0.95	
250 mA			86%		0.95	

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	0.055 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
Mains surge immunity	L-N 1 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	< 20%
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Output data

Output current tolerance	100...150 mA $\pm$ 7% at rated input voltage range 200...250 mA $\pm$ 5% at rated input voltage range
No load output voltage	$\leq$ 55 Vdc
Ripple output current	$\leq$ 5% (ripple = peak/average total 100 Hz)
Output PstLM	$\leq$ 1 at full load @ rated input voltage
Output SVM	$\leq$ 0.4% at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 55 V
Short circuit protection	Yes
Overpower protection	Yes

Dimming operation and interface

Standby power consumption	/
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Connection terminals

Connection terminal type	45° Push in terminal
Wire cross section	Input wire: 0.75-1.5 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	DIP adjusts the current: 100...250 mA
Default current	100 mA
Output voltage range	21...40 Vdc
Starting time(AC)	$\leq$ 500 ms
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 14.8 A			Inrush current T _{width} : 138 μ s	
	MCB type	B10	C10	B16	C16
	Units	52	87	84	140

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

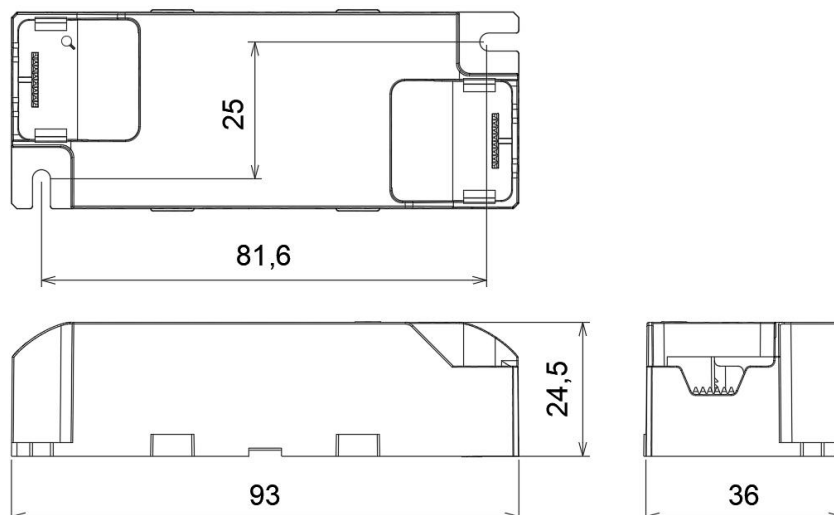
Operating temperature	-20... +50°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 50,000 hrs; at Tc 65 °C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	75°C

Safety & EMC compliance

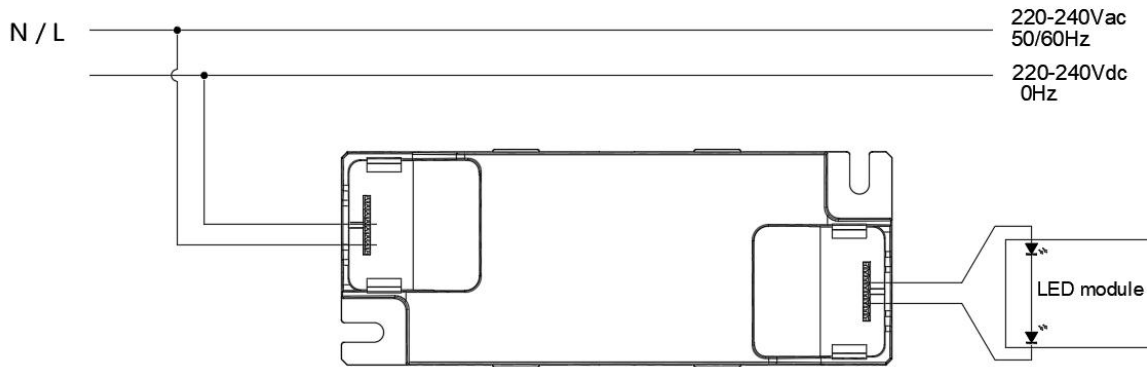
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EN 61347-1:2015+A1:2021	/	/
EN 62384:2020	/	/
EN 55015:2019/A11:2020	/	/
EN61000-3-2:2019/A1:2021	/	/
EN61000-3-3:2013/A2:2021		
EN61547:2009		

Dimensions

Housing dimensions		Packaging details	
Length (L)	93 mm	Packing units	80 pcs.
Width (W)	36 mm	Carton size	385 x 190 x 130 mm
Height (H)	24.5 mm	Weight	4.6 kg

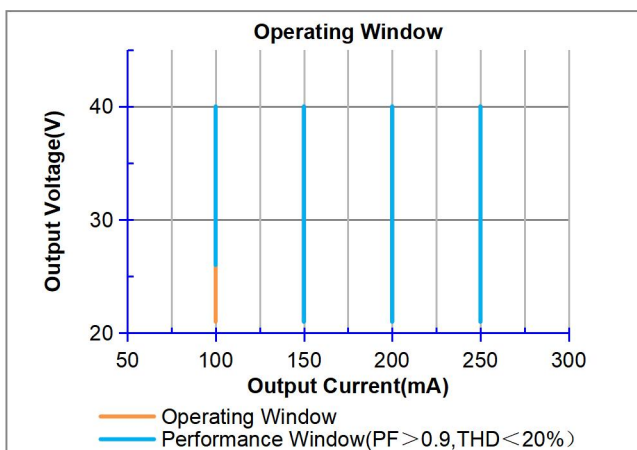
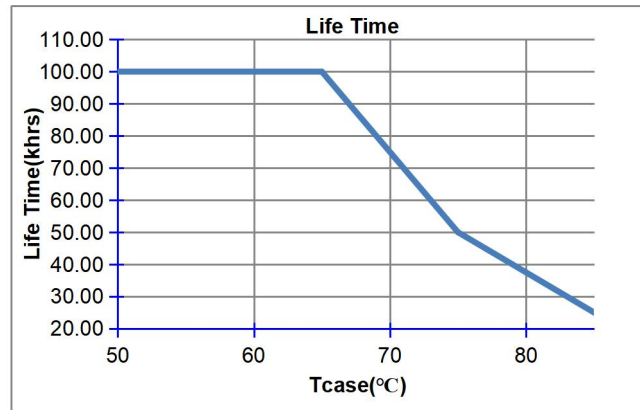
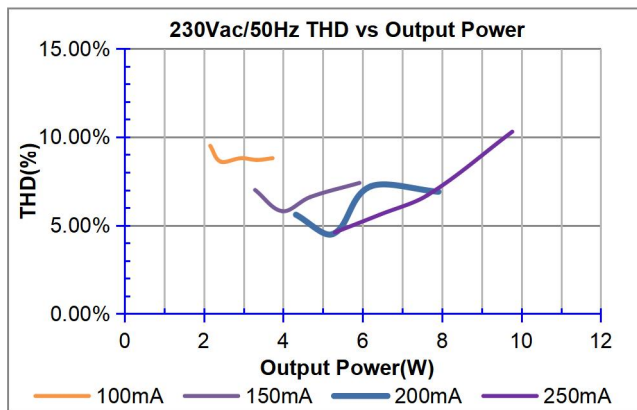
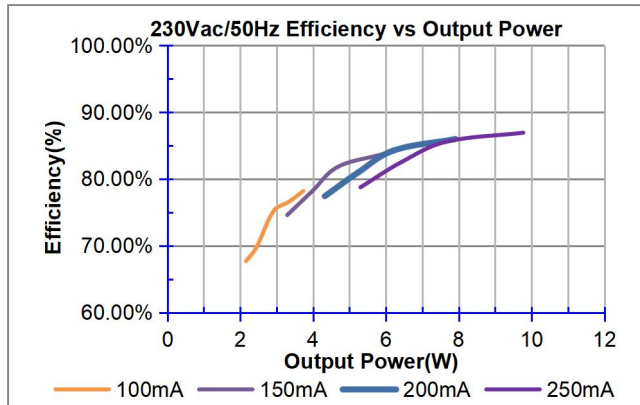
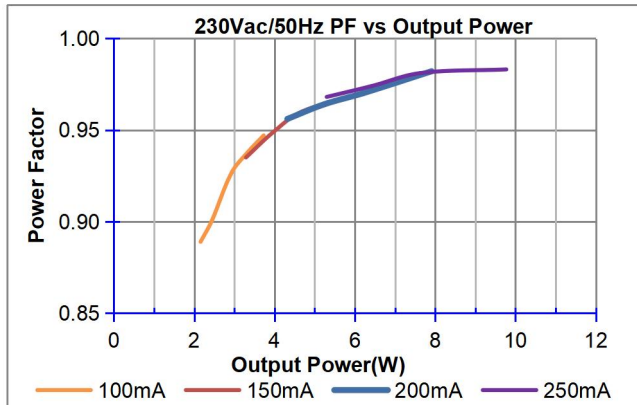


Wiring diagram



- 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.

Technical information



It's important to set the output current (DIP switch) according to the LED voltage and make sure the power is within 10 W + 5%.

Example of AOC settings

V LED (Vdc)	DIP max	Pout (W)
40	250 mA	10
35	250 mA	8.75
25	250 mA	6.25