ID ECSCI 15/230/100-550 NFC TW CS

Art. 169290

Product features

- Isolated adjustable power color temperature LED driver
- Constant lumen output (CLO)
- Current adjustment via NFC
- Output current 100 … 550 mA
- Max. output power 15 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)
100 … 550 mA	220 … 240 VAC 220 … 240 VDC	15 … 42 VDC	85 % (@ 42 V 350 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	0.08 A @ 230 VAC & 0.08 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
Mains surge immunity	L-N 1 kV per IEC 61000-4-5

Total harmonic distortion (THD)	
At rated input voltage range @ full load	15 %

Output data	
Output current tolerance	±5 % at rated input voltage range
No load output voltage	≤ 60 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	Bluetooth mesh current output decreased to 15 % (programmable range: 1 … 100 %)

Protection functions output side

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 BLE instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.
No load output voltage	Open circuit protection is designed to shut off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations • Turn on the light using the BLE dimming command. • Restart the driver: Turn off the power first, and then turn on the drive power after five seconds

Dimming operation and interface

Standby power consumption	< 0.5 W
Dimming mode	Amplitude dimming
Dimming method	Bluetooth mesh 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 stranded and solid-core ; Output wire: 0.2 … 1.5 mm² stranded and solid-core
Wire stripping length	8 … 9 mm

Degree of protection

Protection rating	IP20

Operating data

Output current range	NFC control adjusts the current: 100 … 550 mA
Default current	100 mA
Output voltage range	15 … 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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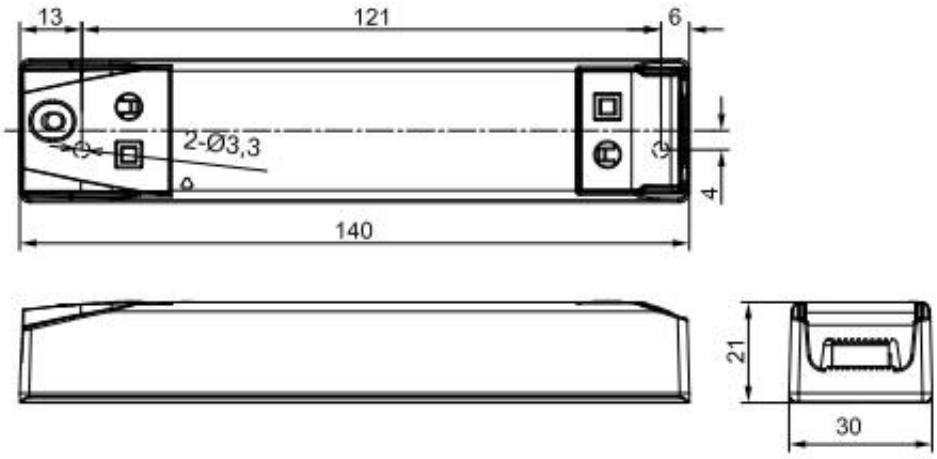
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Dimensions

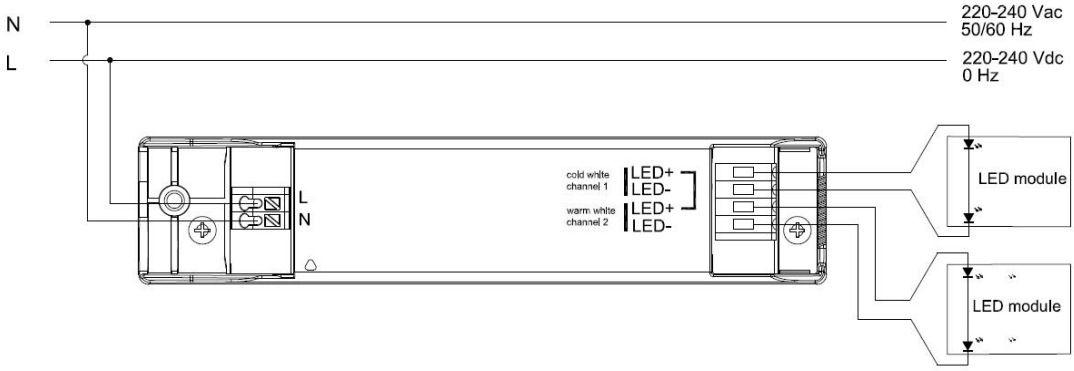
Housing dimensions	
Length (L)	140.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

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

Packaging details	
Packing units	24 pcs
Carton size	178 x 150 x 117 mm
Carton weight	1.9 kg
Product Weight	0.074 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.

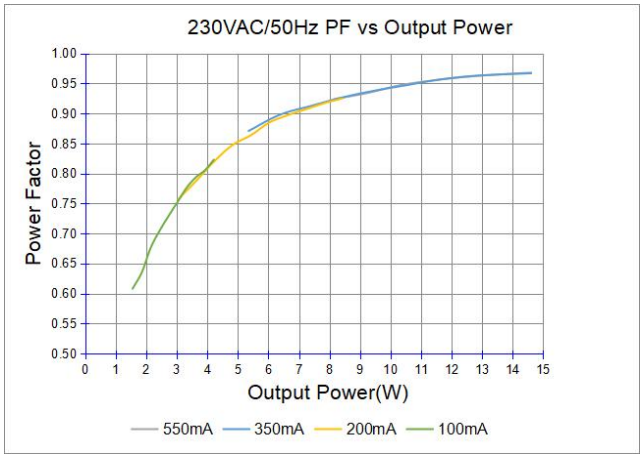
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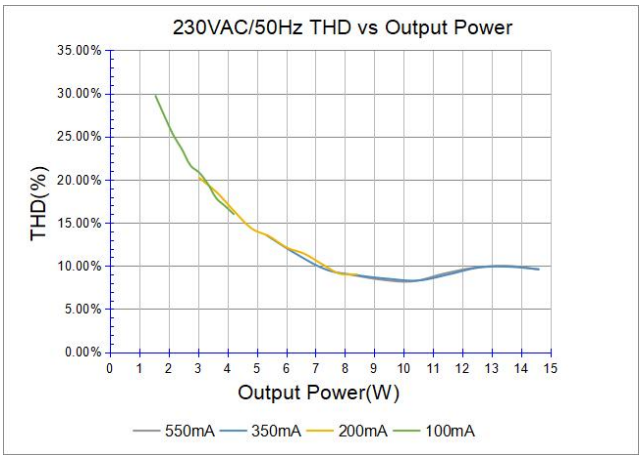
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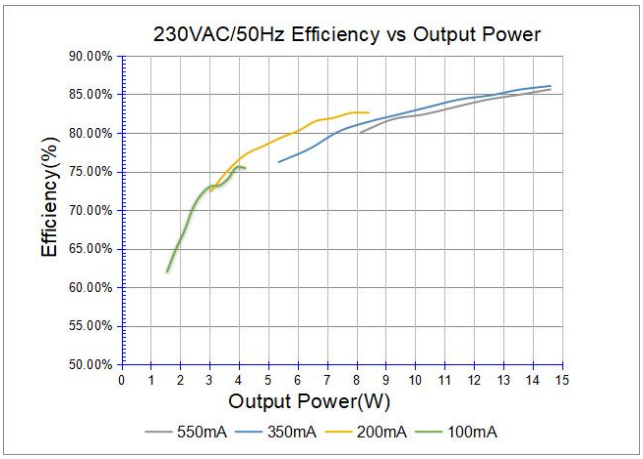
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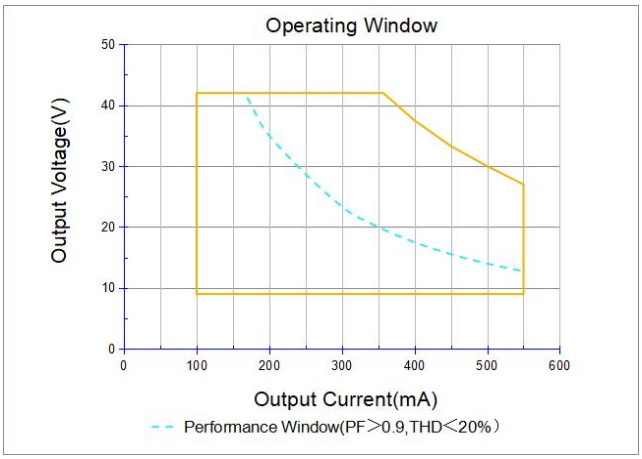
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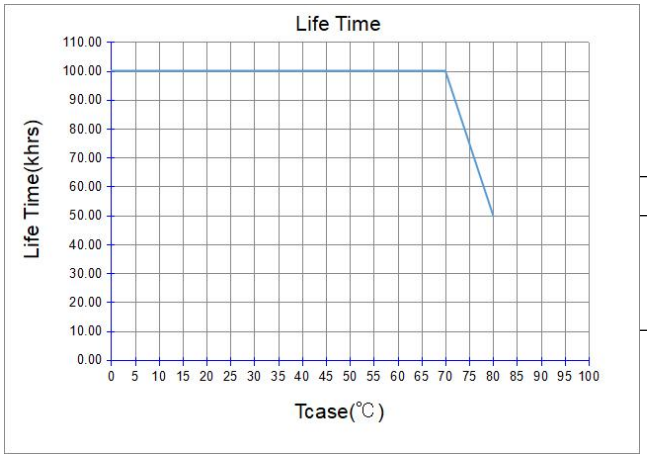
Technical information











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 15 W + 5 %

Example of AOC settings

V LED (VDC)	AOC max	Pout (W)
42	357 mA	15
30	500 mA	15
27	550 mA	14.85

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