

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

169290 ID ECSCI 15/230/100-550 NFC TW CS

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	86% (@42 V 350 mA)	± 5%	0.9 (Output Power >6.5 W @ 230 Vac 50 Hz)	140 x 30 x 21

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

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)
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)

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	Protection device will trigger when short circuit and will auto recover after the fault mode is removed.
No load output voltage	Protection device will trigger when No load and will auto recover after the fault mode is removed.

Dimming operation and interface

Standby power consumption	< 0.5 W
Dimming mode	AM 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 mm ² @ Independent; Output wire: 0.2...1.5 mm ²
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 I _{peak} : 9.5 A		Inrush current T _{width} : 155 us		
	MCB type	B10	C10	B16	C16
	Units	72	106	115	170

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.
- The recommended NFC communication distance: 5...20 mm.

Environmental specifications

Operating temperature	-20... +50 °C
Storage temperature	-25... +85 °C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 80 °C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	85 °C

Safety & EMC compliance

ENEC+CE	CCC	SAA
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

Dimensions

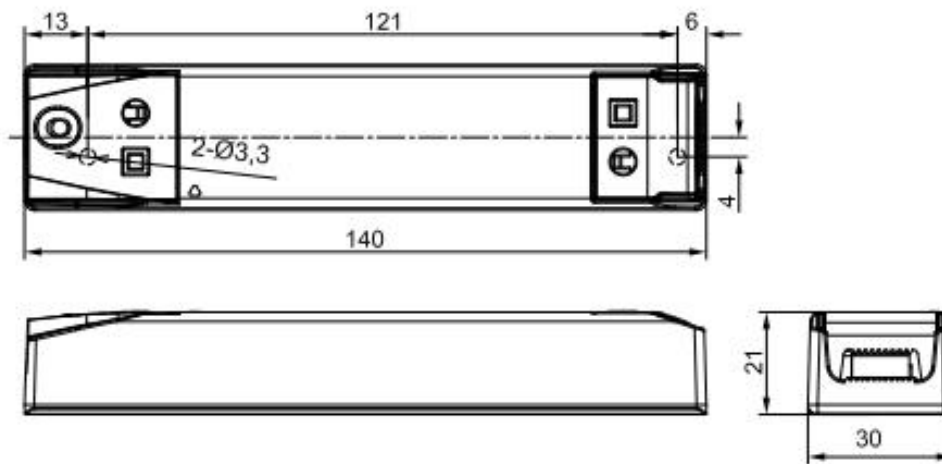
Housing dimensions

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

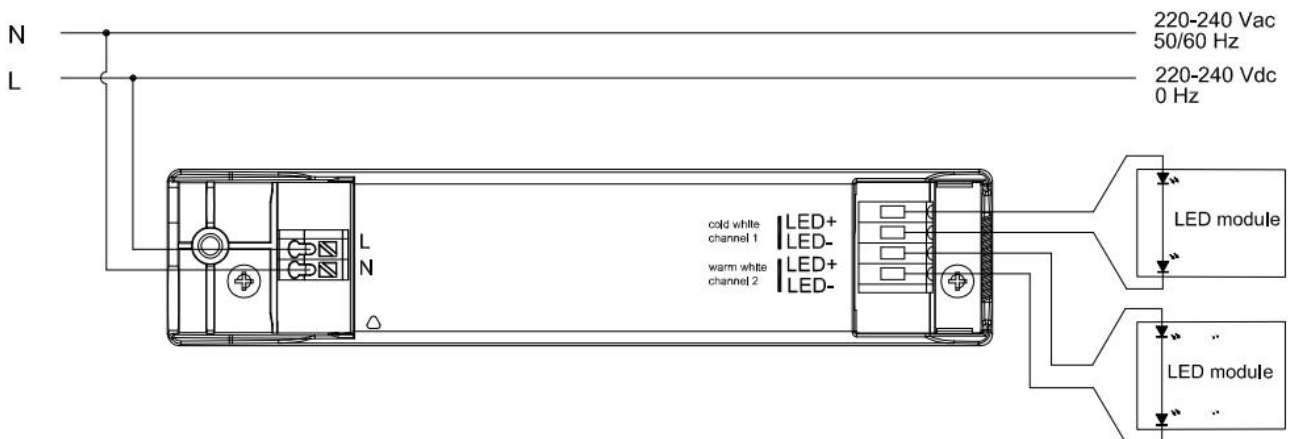
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	TBD
Carton size	TBD
Carton weight	TBD
Product Weight	TBD

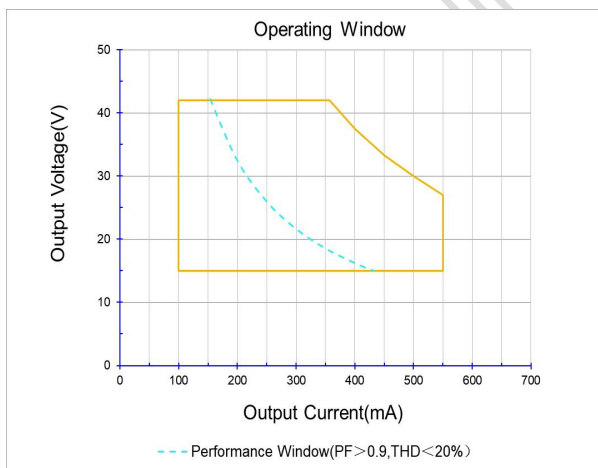
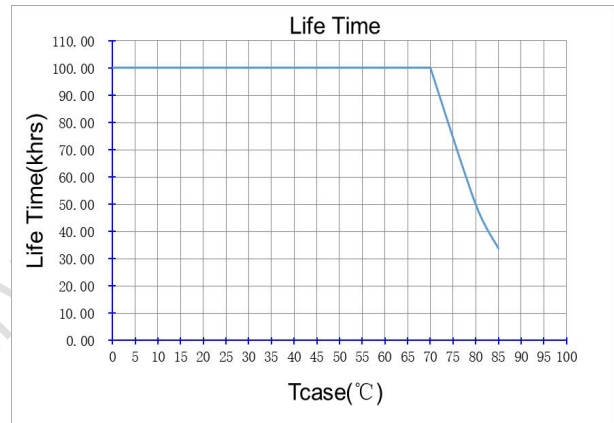
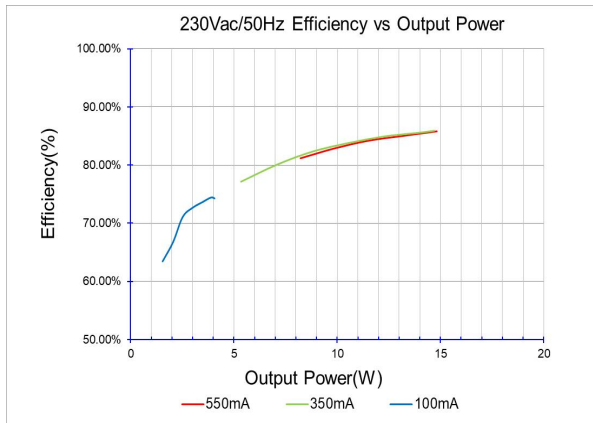
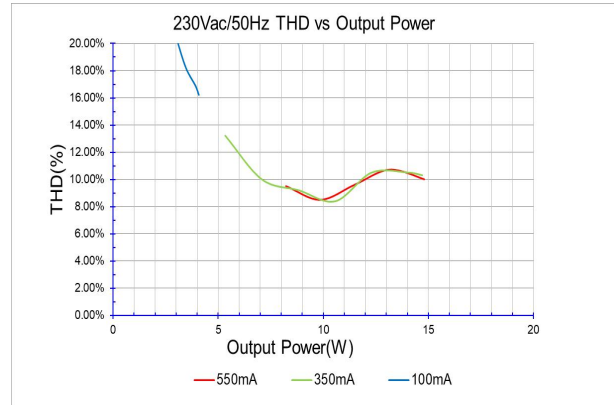
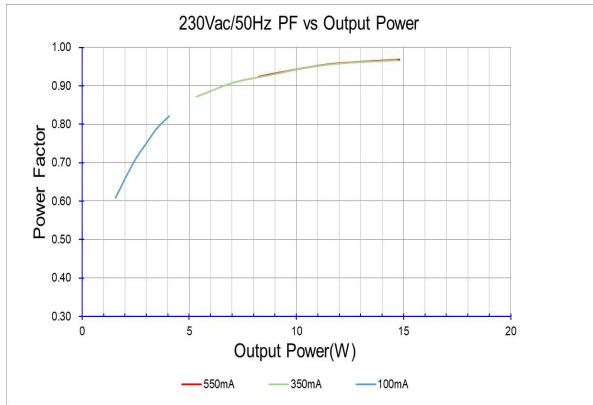


Wiring diagram



- 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 (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