

Product features

- Isolated adjustable power LED driver
- Flicker-free LED driver
- DIP control adjusts the current
- Output current 100... 700 mA by DIP switch adjust
- Max. output power 4.2 W
- For luminaires with protection class II
- 5 years warranty



Product specifications

169535 RD ECSCB 4/230/100-700 DIP

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor (@ full load)	Dimension L x W x H (mm)
100...700 mA	220...240 Vac 220...240 Vdc	2...7.5 Vdc	> 70%	± 5%	> 0.5	76.0 x 23.5 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	0.1 A @ 230 Vac & 0.1 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...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 per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 180% (No power factor correction)
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Output data

Output current tolerance	± 5% @ full load
No load output voltage	< 9 Vdc
Ripple output current	< 15% (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

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 9 V
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

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section mains input	Built-in: 0.5...1.5 mm ² stranded and solid-core; Independent: 0.75...1.5 mm ² stranded and solid-core
Wire cross section control input	Built-in: 0.5...1.5 mm ² stranded and solid-core ; Independent: 0.75...1.5 mm ² stranded and solid-core
Wire cross section output	0.2...1.5 mm ² stranded and solid-core
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	DIP control adjusts the current: 100...700 mA
Default output current	700 mA (Specifically according to the requirements)
Output voltage range	2...7.5 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 10 A			Inrush current T _{width} : 310 μs	
	MCB type	B10	C10	B16	C16
	Units	20	30	46	50

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... +70°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at T _c 60°C: 100,000 hrs; at T _c 70°C: 50,000 hrs @ 230 Vac
Maximum T _c temperature	70°C

Safety & EMC compliance

CE		
EN 61347-1:2024		
EN 61347-2-13:2024		
EN IEC 55015:2019/A11:2020		
EN IEC 61547:2023		
EN IEC 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		

Dimensions

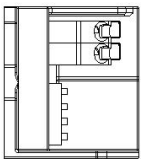
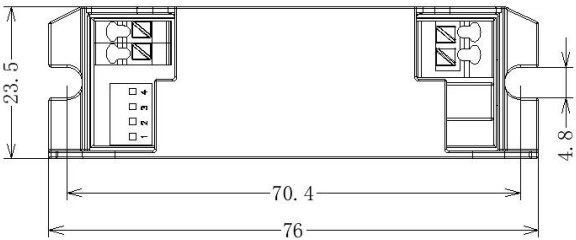
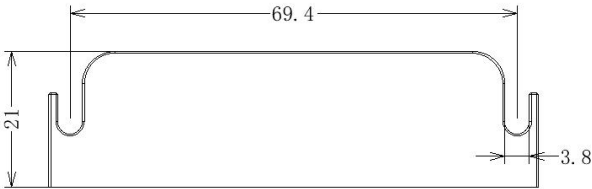
Housing dimensions

Length (L)	76.0 mm
Width (W)	23.5 mm
Height (H)	21.0 mm

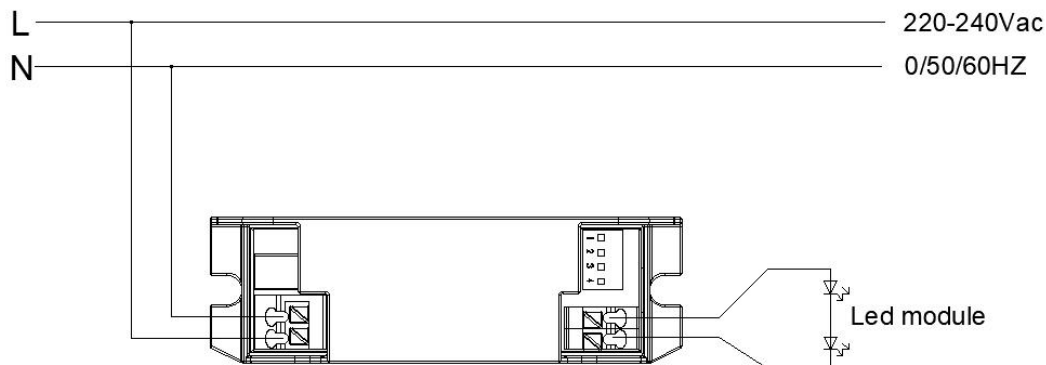
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	200 pcs.
Carton size	395 x 235 x 167 mm
Carton weight	6.5 kg
Product weight	0.029 kg

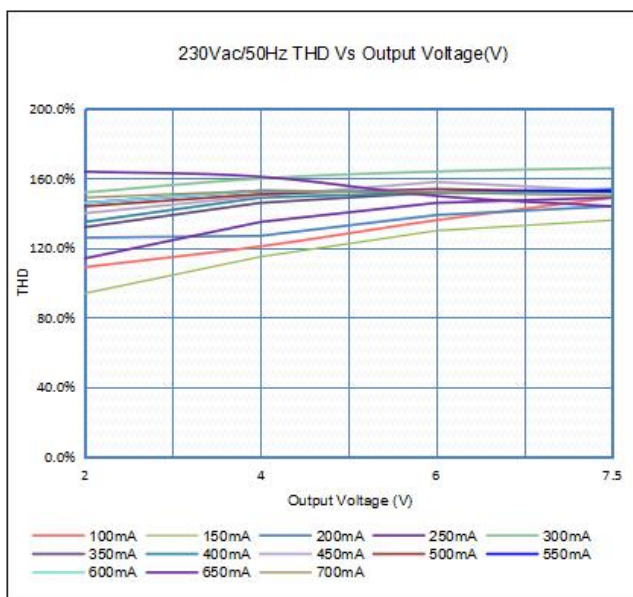
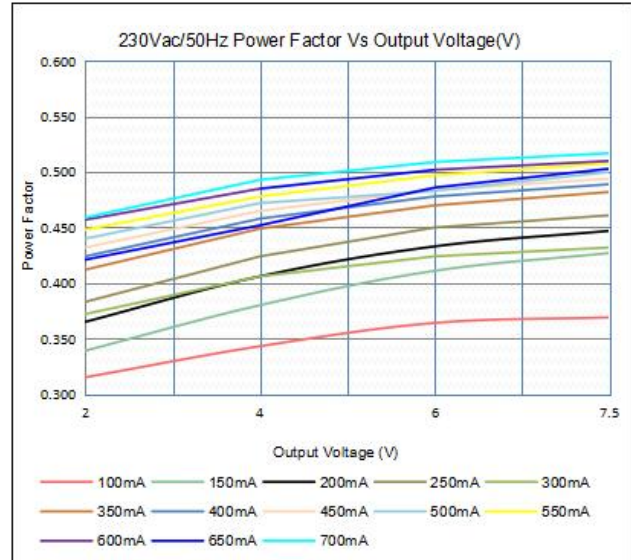
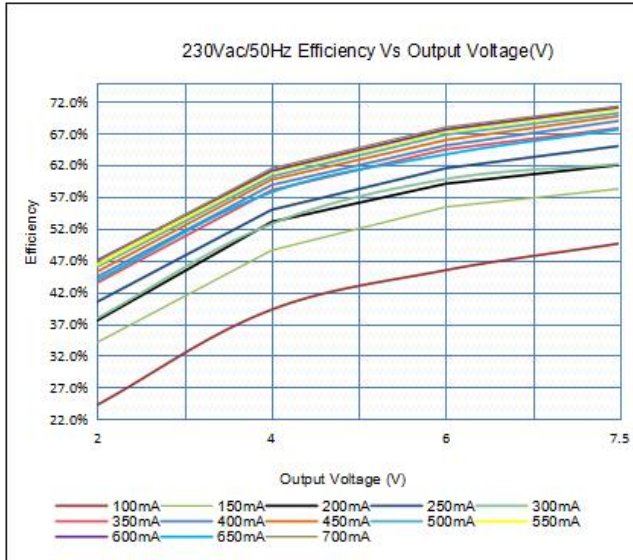


Wiring diagram



- 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



Adjustable output current with DIP switch

LED	I _{out}	1	2	3	4
1-2	100 mA	-	-	-	-
1-2	150 mA	ON	-	-	-
1-2	200 mA	-	ON	-	-
1-2	250 mA	ON	ON	-	-
1-2	300 mA	-	-	ON	-
1-2	350 mA	ON	-	ON	-
1-2	400 mA	-	ON	ON	-
1-2	450 mA	ON	ON	ON	-
1-2	500 mA	ON	ON	-	ON
1-2	550 mA	-	-	ON	ON
1	600 mA	ON	-	ON	ON
1	650 mA	-	ON	ON	ON
1	700 mA	ON	ON	ON	ON