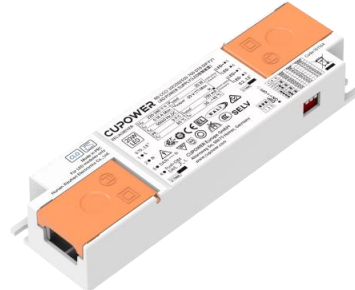


Product features

- Isolated adjustable power color temperature LED driver
- Support DALI-2, Push Dimming
- Output current 350...700 mA by DIP Switch adjust
- Current output default value 100%
- Max. output power 20 W
- For luminaries of protection class I, II
- 5-year warranty
- DC emergency
- Constant lumen output (CLO)



Product specifications

161164 RD CCCI 20/230/350-700 DT8 DIP FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
350 mA	220...240 Vac 220...240 Vdc	9...42 Vdc	86% (@ 42 V 600 mA) 85% (@ 42 V 700 mA)	± 5%	> 0.9 (Output power > 9 W @ 230 Vac 50 Hz)	133.0 × 38.0 × 21.0
400 mA						
450 mA						
500 mA						
550 mA						
600 mA						
650 mA						
700 mA						

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	0.13 A @ 230 Vac & 0.13 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, 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%
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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)
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 48 V
Overpower protection	The output power is less than or equal to 23 W

Dimming operation and interface

Standby power consumption	< 0.5 W
Dimming mode	DALI-2, push dimming, push CCT dimming
Dimming method	Amplitude dimming @ Output current ≥ 6% of the maximum current Hybrid dimming @ Output current < 6% of the maximum current
Dimming current range	0.1%...100%

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	Output current 350...700mA by DIP Switch adjust
Default current	350 mA
Output voltage range	9...42 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 4.66 A			Inrush current T _{width} : 40 µs	
	MCB type	B10	C10	B16	C16
	Units	79	79	126	126

Environmental specifications

Operating temperature	-20...+45°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at T _c 85°C: 50,000 hrs; at T _c 75°C: 100,000 hrs @ 230 Vac (0.2% / 1,000 h failure rate)
Maximum T _c temperature	85°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1:2021	GB 17625.1-2022	AS/ 61347.2.13:2018
EN 61347-2-13:2014/A1:2017	GB/T 17743-2021	AS/NZS 61347.1:2016+ A1 Lamp Control Gear- Part 2-13
EN IEC 62384:2020	GB 19510.1-2023	
EN IEC 55015:2019/A11:2020	GB 19510.14-2023	
EN IEC 61547:2023		
EN IEC 61000-3-2:2019/A1:2021		
EN 61000-3-3:2013/A2:2021		
EN62493:2015/A1:2022		

Dimensions

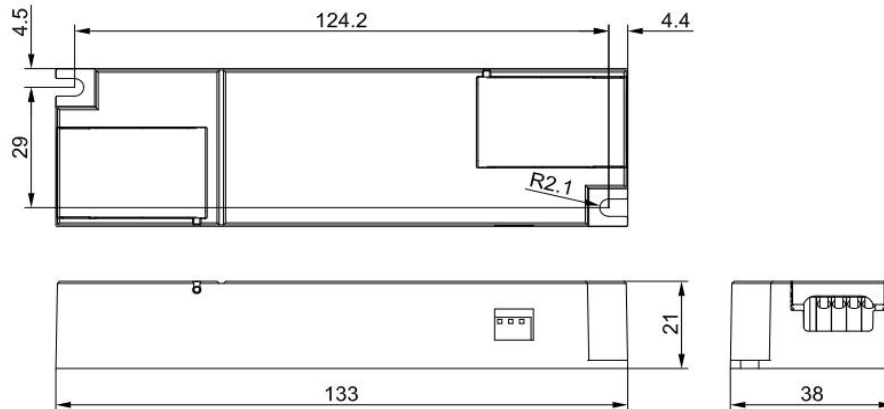
Housing dimensions

Length (L)	133.0 mm
Width (W)	38.0 mm
Height (H)	21.0 mm

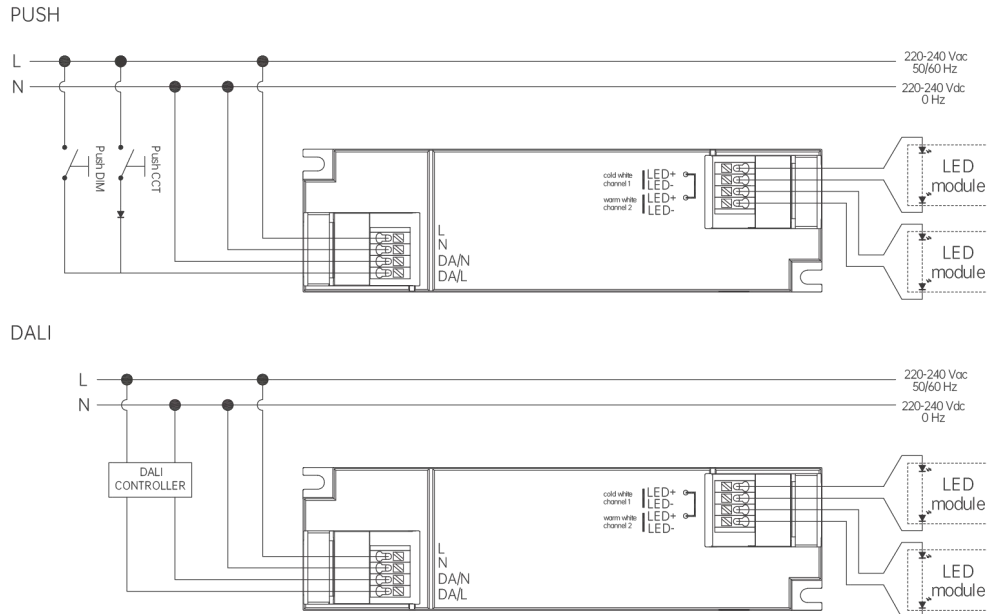
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	86 pcs
Carton size	352 x 276 x 138 mm
Carton weight	7.9 kg
Product weight	0.084 kg



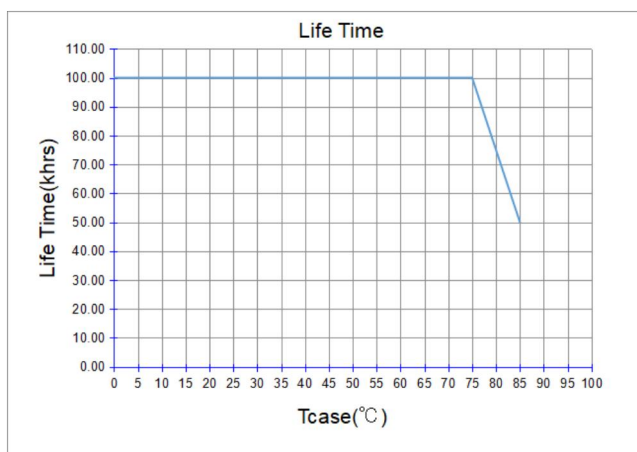
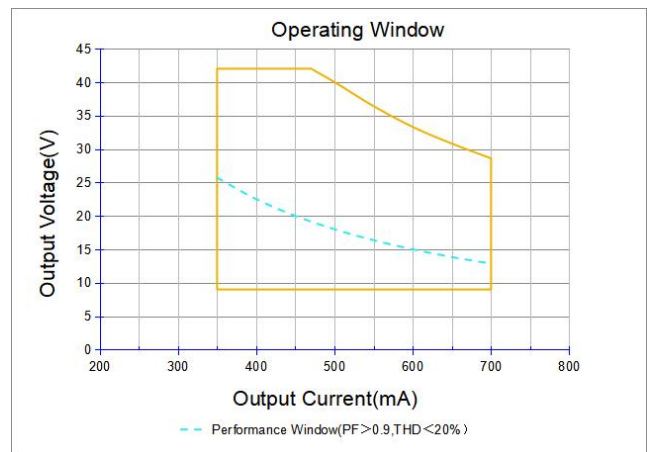
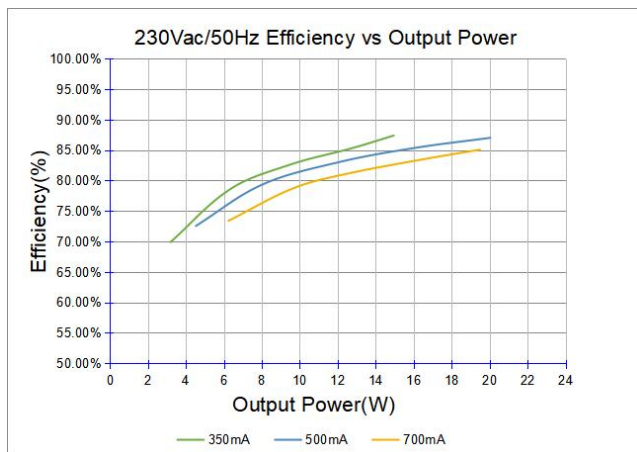
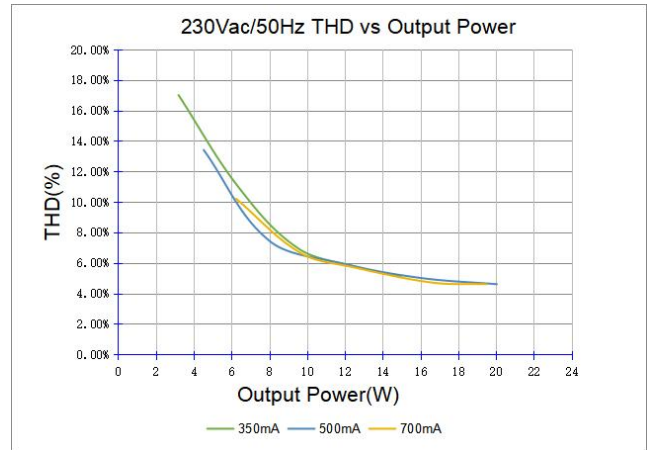
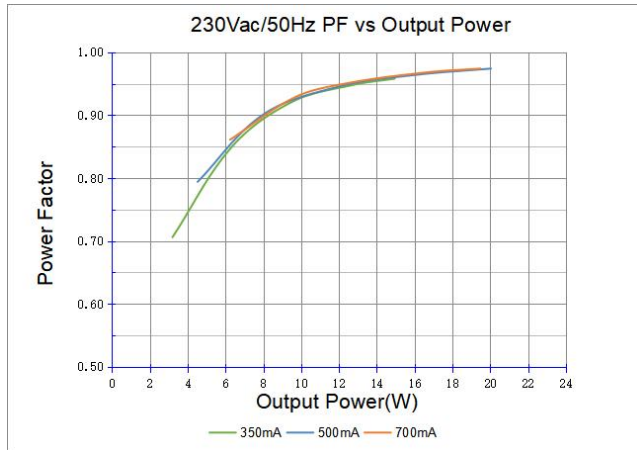
Wiring diagram



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.
- Support common anode wiring and discrete wiring.
- The voltage deviation of LED strings connected to warm white and cool white should be less than 0.5 V.
- Before adjusting the color temperature, connect the driver to a PUSH DIM button and press it for >1 s to enter PUSH mode. Then adjust using the Colour Switch.
- 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](#)

Technical information



at Tc 85 °C (0.2 % / 1,000 h failure rate)

Adjustable Output Current With DIP-Switch

Vout (V)	Pout (W)	Iout (mA)	1	2	3
9-42	14.7	350	-	-	-
9-42	16.8	400	-	-	ON
9-42	18.9	450	-	ON	-
9-40	20.0	500	-	ON	ON
9-36	19.8	550	ON	-	-
9-33	19.8	600	ON	-	ON
9-30	19.5	650	ON	ON	-
9-28	19.6	700	ON	ON	ON