

Product features

- Isolated adjustable power LED driver
- Supports DALI-2, push DIM control
- Flicker free LED driver
- Output current 300-1050 mA by DIP Switch adjust
- Max. output power 44 W
- DC emergency
- Constant lumen output(CLO)
- Current output default value 100%
- For luminaries with protection class I, II
- 5-year warranty



Product specifications

160709 ID CCCI44/230/300-1050 DALI FV1

Output current	Input voltage	Output voltage	Efficiency @full loadl	Current accuracy	Power factor	Dimension LxWxH (mm)
300 mA, 350 mA 400 mA, 450 mA 500 mA, 550 mA 600 mA, 650 mA 700 mA, 750 mA 800 mA, 850 mA 900 mA, 950 mA 1000 mA, 1050 mA	220...240 Vac 220...240 Vdc	6...52 Vdc	88%	± 5%	0.9	L170*W65*H30

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	0.3 A @ 230 Vac & 0.3 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...276 Vdc

Protection against voltage peaks

Withstand voltage	I/p-O/p: 3 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

Total harmonic distortion (THD)

At rated input voltage range @ full load	10%
--	-----

Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	≤ 59 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	DALI current output decreased to 15% (programmable)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 59 V
Overpower protection	The output power is less than or equal to 50 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: <ul style="list-style-type: none"> • After receiving DALI 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 turn 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: <ul style="list-style-type: none"> • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.

Dimming operation and interface

Standby power consumption	≤ 0.5 W
Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%~100%

Connection terminals

Connection terminal type	I/P 0° push in terminal; O/P 45° push in terminal
Wire cross section	Primary side: 0.75-2.5 mm ² secondary side: 0.5 - 1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
-------------------	------

Operating data

Output current range	Output current 300-1050mA by DIP Switch adjust
Default current	300 mA
Output voltage range	6...52 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 5.6 A			Inrush current T _{width} : 50 μs	
	MCB type	B10	C10	B16	C16
	Units	37	37	59	59

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... +45°C
Storage temperature	-40...80°C
Working humidity	10%...90%
Store humidity	5%...90%
Lifetime	at Tc ≤ 85° C: 50,000 hrs, at Tc ≤75° C: 100,000 hrs, @230Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN61347-2-13:2014/A1: 2017	GB17625.1: 2012	AS/NZS IEC 61347.2.13: 2013
EN 61347-1: 2015	GB/T17743: 2017	AS/NZS 61347.1: 2016
EN 62384:2006/A1: 2009	GB/19510.1: 2009	
EN 55015:2013/A1: 2015	GB19510.14: 2009	
EN61000-3-2: 2014		
EN61000-3-3: 2013		
EN61547: 2009		

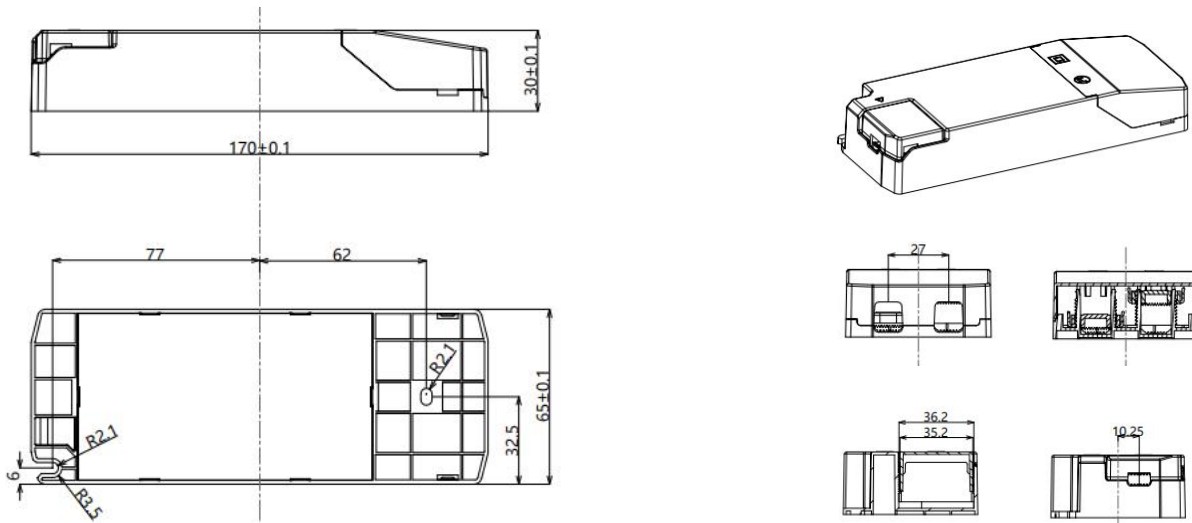
Dimensions

Housing dimensions

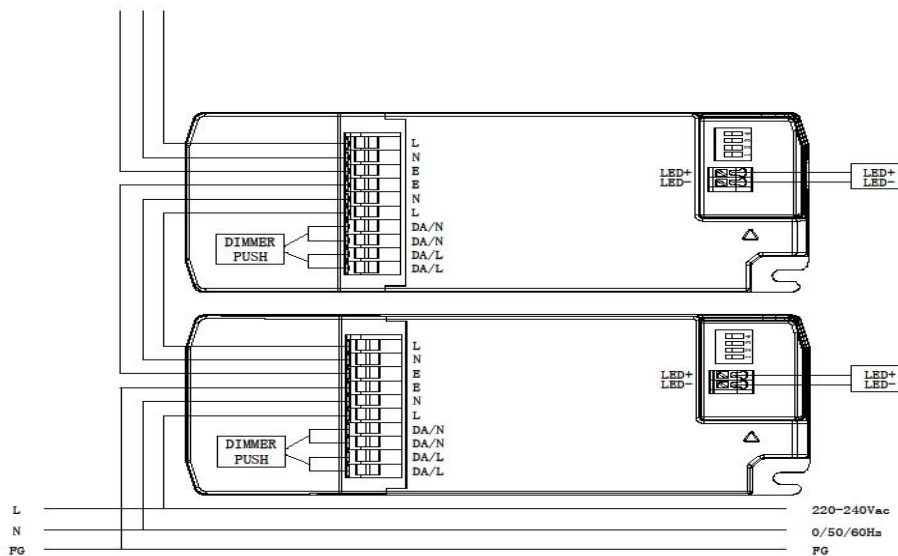
Length (L)	170 mm
Width (W)	65 mm
Height (H)	30 mm
Weight	0.188 kg

Packaging details

Packing units	60 pcs
Carton size	353x 335 x 220 mm
Weight	12 kg

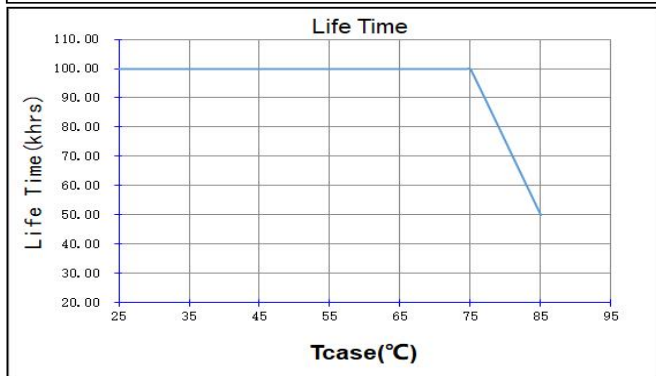
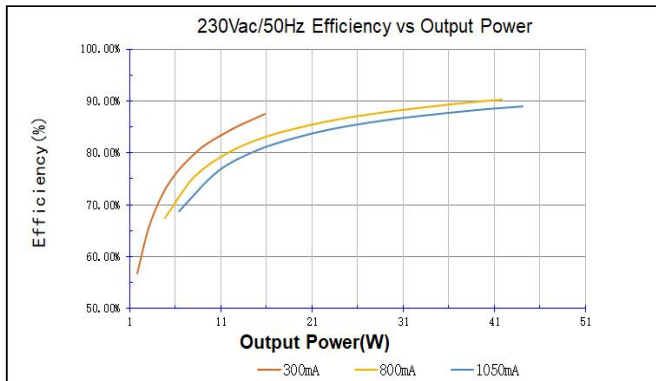
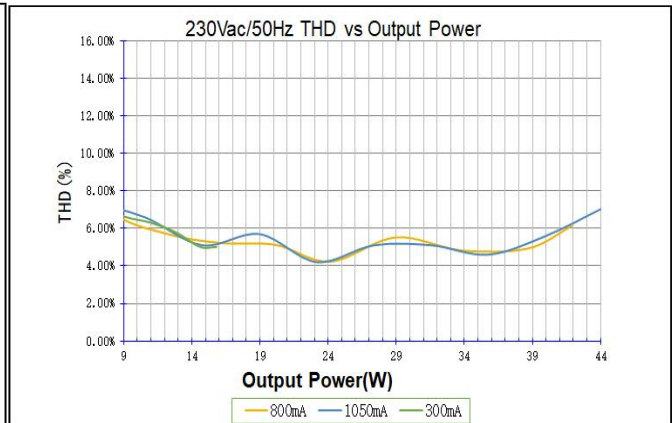
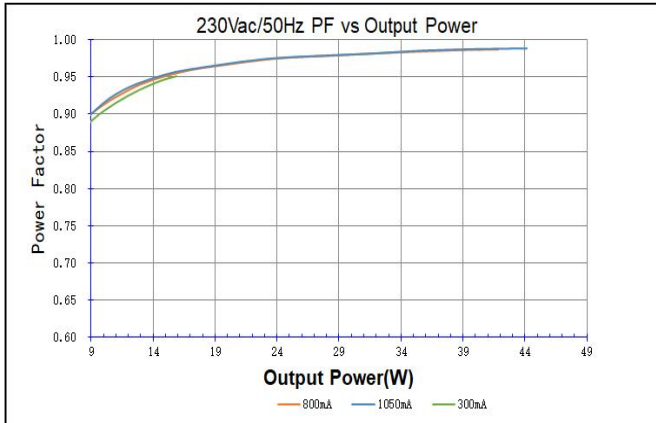


Wiring diagram



- 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

Vout	Pout	Iout	1	2	3	4
6-52 Vdc	15.6 W	300 mA	-	-	-	-
6-52 Vdc	18.2 W	350 mA	-	-	-	ON
6-52 Vdc	20.8 W	400 mA	-	-	ON	-
6-52 Vdc	23.4 W	450 mA	-	-	ON	ON
6-52 Vdc	26 W	500 mA	-	ON	-	-
6-52 Vdc	28.6 W	550 mA	-	ON	-	ON
6-52 Vdc	31.2 W	600 mA	-	ON	ON	-
6-52 Vdc	33.8 W	650 mA	-	ON	ON	ON
6-52 Vdc	36.4 W	700 mA	ON	-	-	-
6-52 Vdc	39 W	750 mA	ON	-	-	ON
6-52 Vdc	41.6 W	800 mA	ON	-	ON	-
6-49 Vdc	41.7 W	850 mA	ON	-	ON	ON
6-49 Vdc	44.1 W	900 mA	ON	ON	-	-
6-46 Vdc	43.7 W	950 mA	ON	ON	-	ON
6-44 Vdc	44 W	1000 mA	ON	ON	ON	-
6-42 Vdc	44.1 W	1050 mA	ON	ON	ON	ON