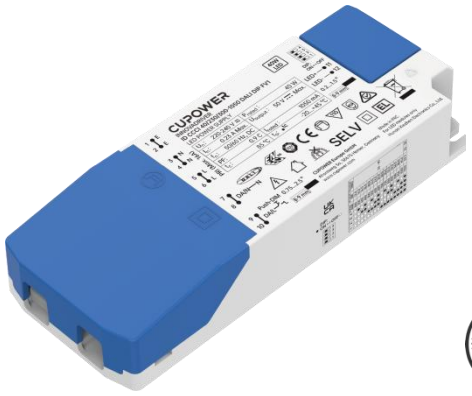
ID CCCI 40/230/300-1050 DALI DIP FV1

Art. 161010

Product features

- Stand alone type dimmable adjustable output power LED driver
- Supports DALI-2, push DIM
- Flicker free LED driver
- Output current 300…1050 mA
- Max. output power 40 W
- Constant lumen output (CLO)
- For luminaires with protection class I, II



Product specifications

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Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
300…1000 mA	220…240 Vac 220…240 Vdc	25…40 Vdc	89%	± 5%	0.9 (@ 15...40 W)	170x65x30
1050 mA		25…38 Vdc	89%			

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	0.23 A @ 230 Vac

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: 3.0 kVac, < 5 mA 60 sec, I/P-DA/P: 1.5 kVac, < 5 mA 60 sec, O/P-DA/P: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV
PushDim surge immunity	L-N 1 kV

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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	50 Vdc
Ripple output current	5% (ripple = peak/average total 100Hz)
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage
Starting time (AC)	660 ms
Leakage current	0.7 mA
Noise (dB)	< 20 dB, at full load @ 100 cm distance
DC emergency level	DALI current output decreased to 15% (DALI commands can be configured according to customer needs)
Emergency light	Switching time AC-DC: Stable current consumption within 1.6 s Automatic restart DC-AC with standard starting time: ≤ 660 ms
Driver switching cycles	100000 cycles

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 44 W
Short circuit protection	Hiccup mode: Protection device will trigger when short circuit and will auto recover after the fault mode is removed
Over-temperature protection	Protection device will trigger when ambient temperature rises to 80°C Automatic recovering

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%
DALI performance	EN 62386-101, 102, 207, 251, 252, 253

Connection terminals	
Connection terminal type	Push in terminal
Wire cross section	Primary side: 0.75…2.5 mm^2; secondary side: 0.2 …1.5 mm^2
Wire stripping length	8…9 mm

Degree of protection	
Protection rating	IP20

Operating data	
Output current range	DIP switch control adjusts the current: 300…1050 mA
Default current	300 mA
Output voltage range	25…40 Vdc

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Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 5.6 A			Inrush current Twidth: 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%…95%
Lifetime	at Tc 80°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE
EN 61347-2-13:2014+A1: 2017
EN 61347-1:2015+A1: 2021
EN 62384: 2020
EN 55015:2019/A11: 2020
EN 61000-3-2:2019/A1: 2021
EN 61000-3-3:2013/A2: 2021
EN 61547: 2009

CCC

SAA
AS/NZS IEC 61347.2.13: 2018
AS/NZS 61347.1:2016+A1: 2018

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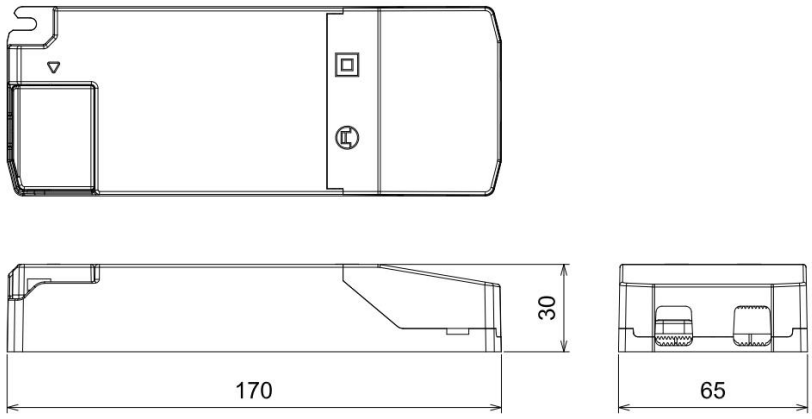
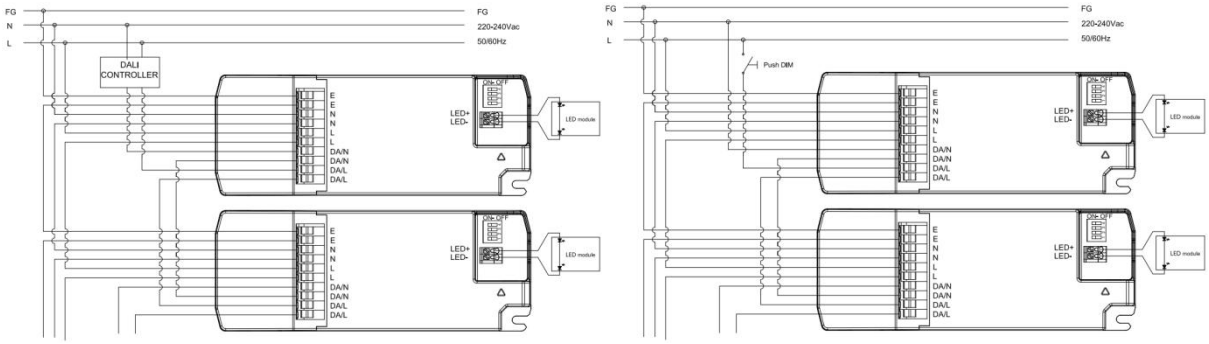
Dimensions

Housing dimensions	
Length (L)	170 mm
Width (W)	65 mm
Height (H)	30 mm
Weight	0.203 kg

Packaging details	
Packing units	57 pcs
Carton size	353 x 335 x 220 mm
Weight	12.5 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).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

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Adjustable output current with DIP switch

Vout	Pout	Iout	1	2	3	4
25…40 Vdc	12 W	300 mA	-	-	-	-
25…40 Vdc	14 W	350 mA	-	-	-	ON
25…40 Vdc	16 W	400 mA	-	-	ON	-
25…40 Vdc	18 W	450 mA	-	-	ON	ON
25…40 Vdc	20 W	500 mA	-	ON	-	-
25…40 Vdc	22 W	550 mA	-	ON	-	ON
25…40 Vdc	24 W	600 mA	-	ON	ON	-
25…40 Vdc	26 W	650 mA	-	ON	ON	ON
25…40 Vdc	28 W	700 mA	ON	-	-	-
25…40 Vdc	30 W	750 mA	ON	-	-	ON
25…40 Vdc	32 W	800 mA	ON	-	ON	-
25…40 Vdc	34 W	850 mA	ON	-	ON	ON
25…40 Vdc	36 W	900 mA	ON	ON	-	-
25…40 Vdc	38 W	950 mA	ON	ON	-	ON
25…40 Vdc	40 W	1000 mA	ON	ON	ON	-
25…38 Vdc	39.9 W	1050 mA	ON	ON	ON	ON

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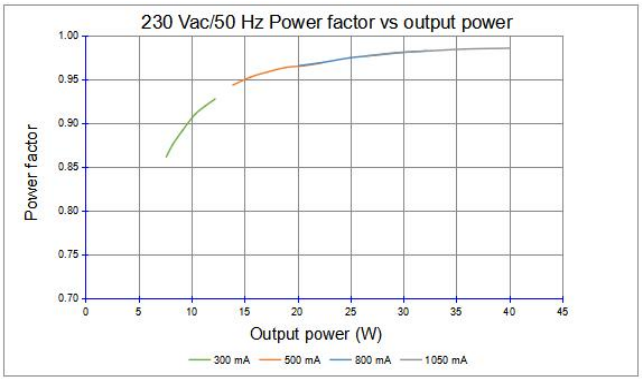
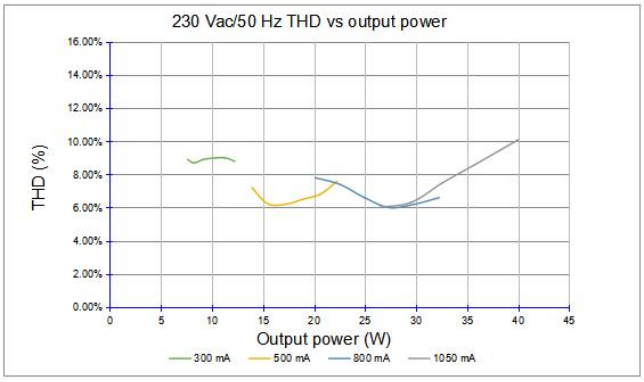
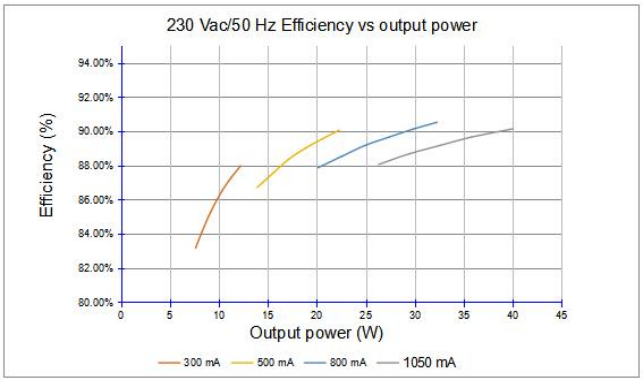
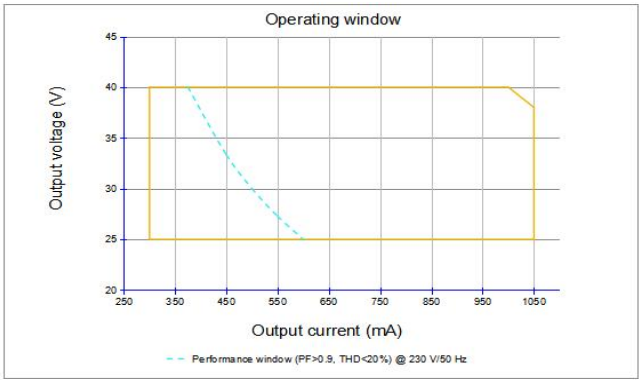
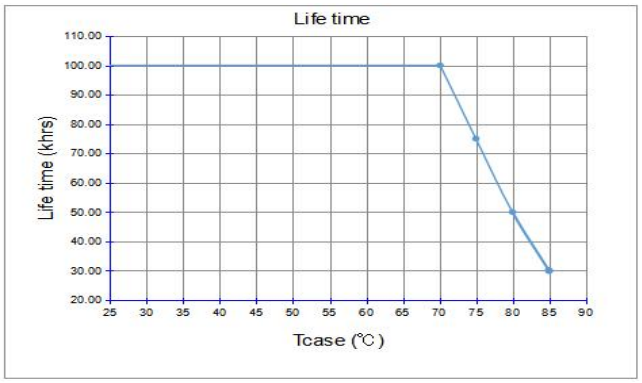
Technical information











It's important to set the output current according to the LED voltage and make sure the power is within 40 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
40	300 mA	12
40	500 mA	20
40	1000 mA	40
38	1050 mA	39.9

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