

Product features



- Stand alone type Dimmable adjustable output power LED driver
- Flicker-free LED driver
- Supports DALI-2, push Dimming
- Output current 400...750 mA
- Max. output power 30 W
- Constant lumen output (CLO)
- For luminaires of protection class I,II
- 5 years warranty



Product specifications

160730 ID CCCI 30/230/400-750 DALI FV1

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor @full load	Dimension LxWxH (mm)
400...550mA	220...240 Vac 220...240 Vdc	2.5-52Vdc	86%	± 5%	≥ 0.9	160x43x21
600mA		2.5-50Vdc	86%			
650mA		2.5-46Vdc	87%			
700mA		2.5-42Vdc	87%			
750mA		2.5-40Vdc	88%			

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	0.17 A @ 230 Vac

Battery operation

DC voltage range	220...240Vdc
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

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 20%
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Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	59 Vdc
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 59V
Overpower protection	The output power is less than or equal to 35 W
Short circuit protection	Yes

Dimming operation and interface

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

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Primary side: 0.75 -1.5 mm ² ; secondary side: 0.5 - 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	NFC control adjusts the current: 400...750 mA
Default current	400 mA
Output voltage range	2.5...52 Vdc
Noise level	< 20dB, at full load @ 100cm distance

Circuit breaker / Inrush current

	Inrush current I _{peak} : 4 A			Inrush current T _{width} : 25 μs	
MCB loading quantity	MCB type	B10	C10	B16	C16
	Units	54	54	86	86

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.
- Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed

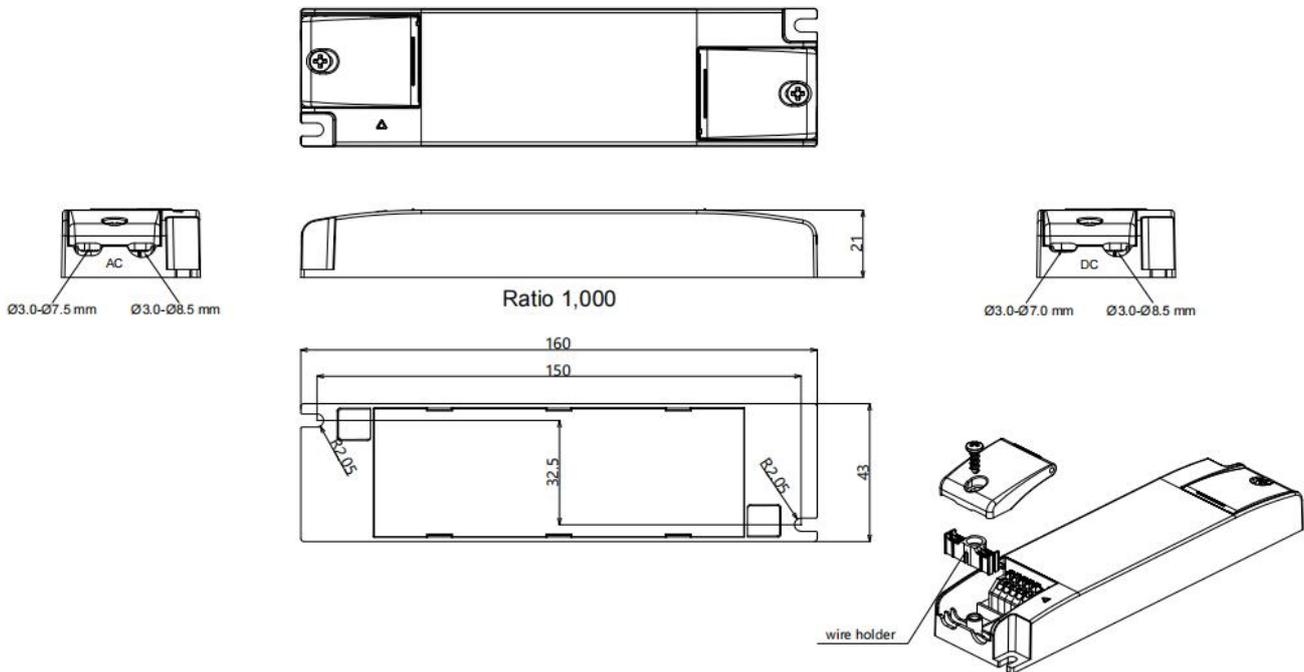
Dimensions

Housing dimensions

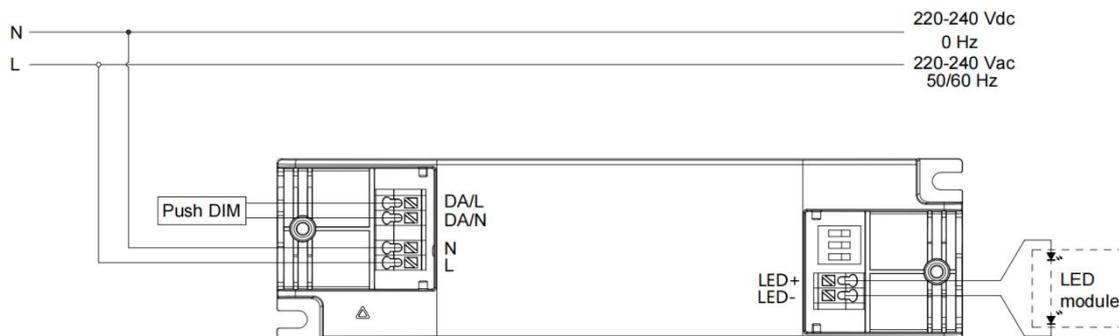
Length (L)	160 mm
Width (W)	43 mm
Height (H)	21 mm
Weight	0.11 kg

Packaging details

Packing units	50 pcs
Carton size	335 x 225 x 145 mm
Weight	6 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 circuit.

Adjustable Output Current with dip-switch

Vout	Pout	Iout	1	2	3
2.5-52Vdc	20.8W	400mA	-	-	-
2.5-52Vdc	23.4W	450mA	-	-	ON
2.5-52Vdc	26.0W	500mA	-	ON	-
2.5-52Vdc	28.6W	550mA	-	ON	ON
2.5-50Vdc	30.0W	600mA	ON	-	-
2.5-46Vdc	29.9W	650mA	ON	-	ON
2.5-42Vdc	29.4W	700mA	ON	ON	-
2.5-40Vdc	30.0W	750mA	ON	ON	ON

Technical information

