

Product features

- Built-in isolated adjustable power LED driver
- Flicker-free LED driver
- Supports DALI-2, push dimming, push CCT control
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Usable as DT6 (2-channel) or DT8 (tunable white) driver
- Output current 500...2000 mA
- Max. output power 75 W
- Constant lumen output (CLO)
- DC emergency
- Current output default value 15%
- For luminaires with IEC protection class I
- 5 years warranty



Product specifications

161126 ID LCCB 75/230/500-2000 DT8 NFC FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
500 mA	220...240 Vac 220...240 Vdc	15...54.0 Vdc	89%	± 5%	0.9	360.0 x 29.5 x 16.0
1000 mA		15...54.0 Vdc	91%			
1500 mA		15...50.0 Vdc	90%			
2000 mA		15...37.5 Vdc	89%			

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	0.40 A @ 230 Vac & 0.40 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...278 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 I/p-FG: 1.5 kVac, < 5 mA 60 sec; O/p-Da: 1.5 kVac, < 5 mA 60 sec O/p-FG: 1.5 kVac, < 5 mA 60 sec; Da-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 kV per IEC 61000-4-5

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	≤ 60 Vdc
Ripple output current	2%
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 60 V
Overpower protection	The output power is less than or equal to 83 W
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

Dimming operation and interface

Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming range	1%...100% (5...2000 mA)
Standby power consumption	< 0.3 W

Connection terminals

Connection terminal type	0° push in terminal
Wire cross section	Input wire: 0.5...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	NFC control adjusts the current: 500...2000 mA
Default current	500 mA
Maximum output current (DT8)	2000 mA total
Maximum output current (DT6)	2500 mA total
Output voltage range	15...54 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 23 A			Inrush current Twidh: 33.5 μs	
	MCB type	B10	C10	B16	C16
	Units	24	24	39	39

Environmental specifications

Operating temperature	-25...+55°C
Storage temperature	-40...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 300 330 V2.1.1		AS 61347.2.13
EN 62479		AS/NZS 61347.1+A1
EN 50663		
EN 301 489-1 V2.2.3		
EN 301 489-3 V2.3.2		
EN IEC 55015		
EN IEC 61547		
EN IEC 61000-3-2		
EN 61000-3-3		
EN 61347-1		
EN 61347-2-1		
EN IEC 62384		

DALI-2 Acc. to EN 62386
Acc. to IEC 62386-101:Ed2
Acc. to IEC 62386-102:Ed2
Acc. to IEC 62386-207:Ed1
Acc. to IEC 62386-209:Ed1
Acc. to IEC 62386-251:Ed2
Acc. to IEC 62386-252:Ed2
Acc. to IEC 62386-253:Ed2

Dimensions

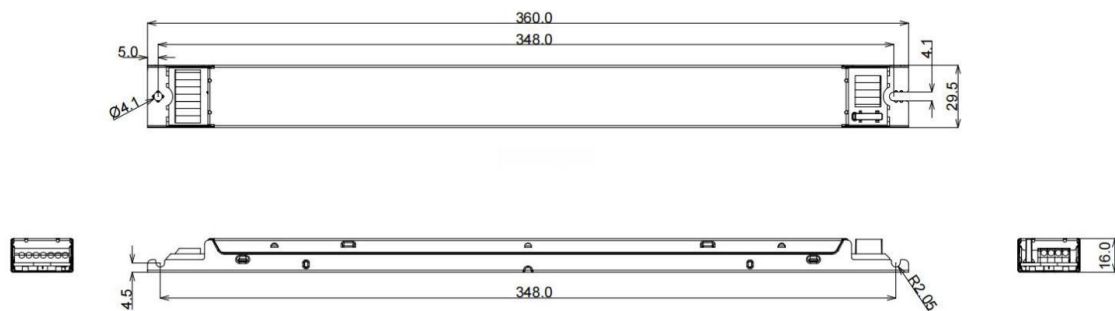
Housing dimensions

Length (L)	360.0 mm
Width (W)	29.5 mm
Height (H)	16.0 mm

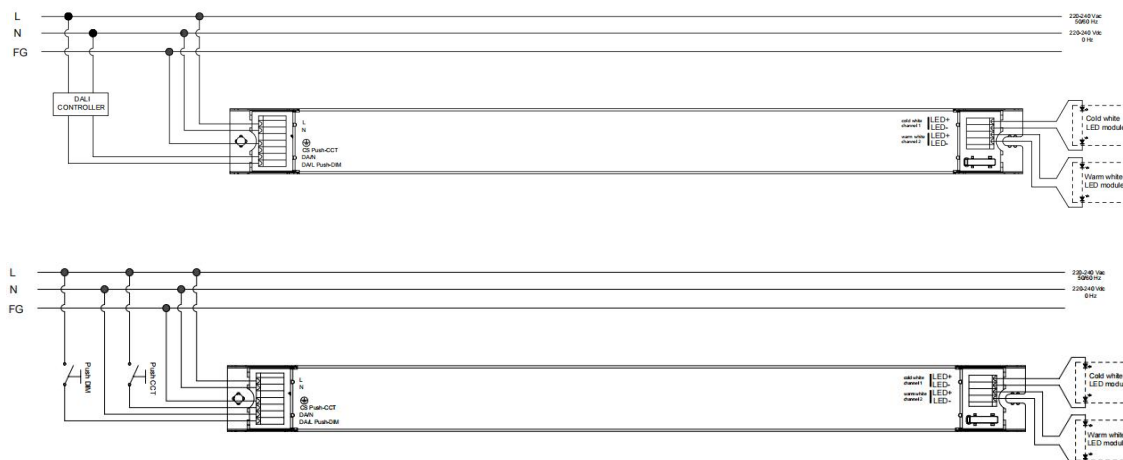
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	20 pcs
Carton size	381 x 128 x 103 mm
Carton weight	5.2 kg
Product weight	0.25 kg



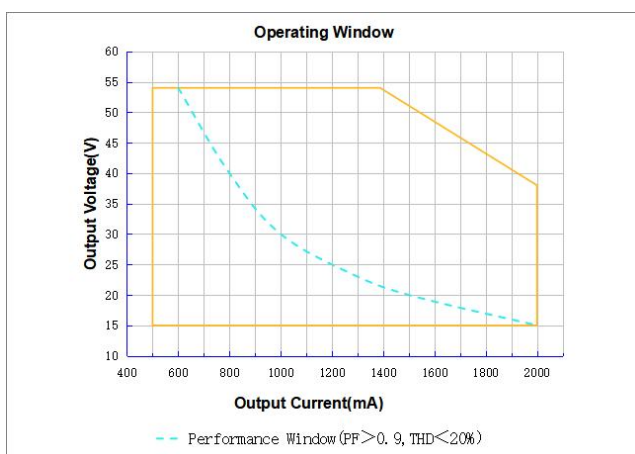
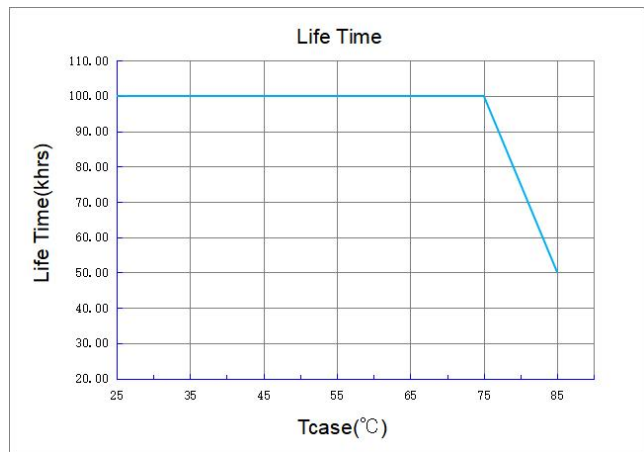
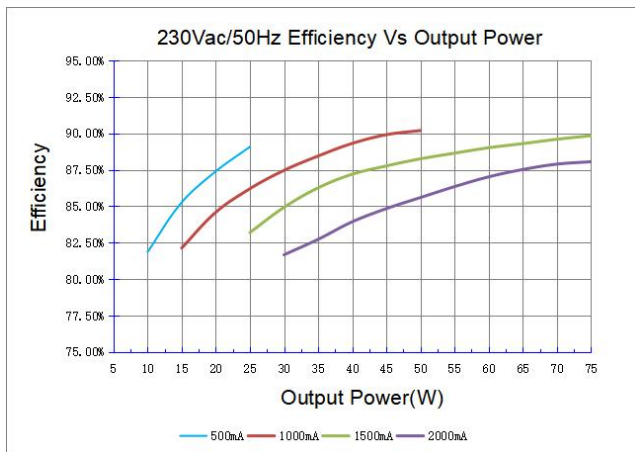
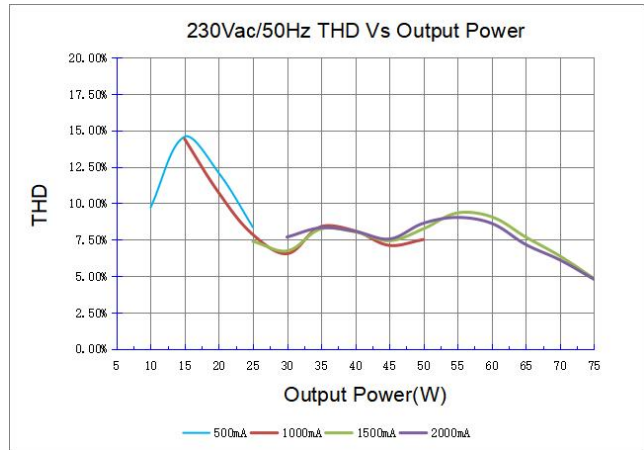
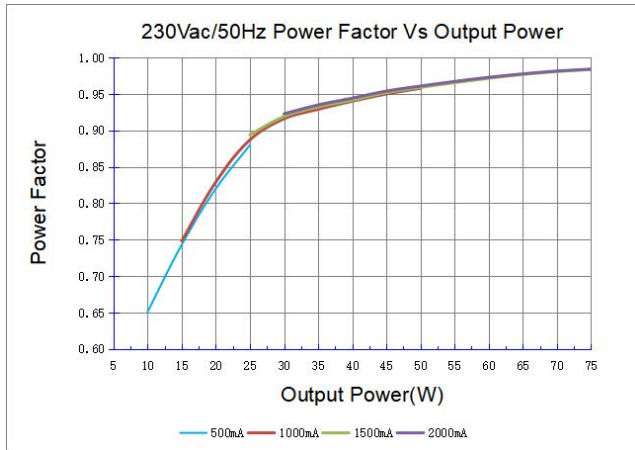
Wiring diagram



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.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.
- 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.
- 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.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 75 W + 5%

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	500 mA	27
54	1000 mA	54
50	1500 mA	75
37.5	2000 mA	75