

Datasheet & Operating instructions

Model: SS-12CM-DALI2

LED power supply with adjustable output current

12 W max., IP20, built-in installation

dimmable with DALI2, PUSH (pri.)

Flicker-free according to IEEE 1789



Electrical data

Rated input voltage	220...240 Vac	
Range of input voltage	198...264 Vac	
Range of input voltage (DC)	176...250 Vdc	
Mains frequency	50/60 Hz	
Power factor (λ)	0.95	Full load, 230 Vac
Input current	0.08 A max.	
Inrush current	10 A max.	
No-Load loss	$\leq 0.5W$	
Output current	100 mA, 2-42 Vdc, 0.2-4.2 W 200 mA, 2-42 Vdc, 0.4-8.4 W 300 mA, 2-42 Vdc, 0.6-12.6 W 450 mA, 2-28 Vdc, 0.9-12.6 W 700 mA, 2-18 Vdc, 1.4-12.6 W	150 mA, 2-42 Vdc, 0.3-6.3 W 250 mA, 2-42 Vdc, 0.5-10.5 W 350 mA, 2-36 Vdc, 0.7-12.6 W 500 mA, 2-25 Vdc, 1-12.5 W
Efficiency	80 %	
Lifetime	> 50,000 h	
Dimming	DALI-2 (DT-6): 0.1-100 %, lead wire 300 m max. PUSH (pri.): 0.1-100 %, lead wire 20 m max., parallel connection max. 25 units	

Operating condition

Operating temperature range (t_a)	-20...+60 °C
Max. Surface temperature (t_c)	90 °C
Relative humidity	5...85%
Protection class	II
Type of protection	IP20

Protection

No-load protection	Yes *
Short circuit protection	Yes *
Overload protection	Yes *
Overheating protection	Yes *
Overvoltage protection	Yes *

(*) The output shuts off and will be resumed, after problem is removed and led driver is restarted.

Standards

Standards	EN 61347-1, EN 61347-2-13 EN 55015, EN 61547, EN 62384 EN 61000-3-2, EN 61000-3-3
Dali Standard (DT-6)	EN 62386-101, EN 62386-102 EN 62386-207, EN 62386-251 EN 62386-252, EN 62386-253
Marking	CE, UKCA

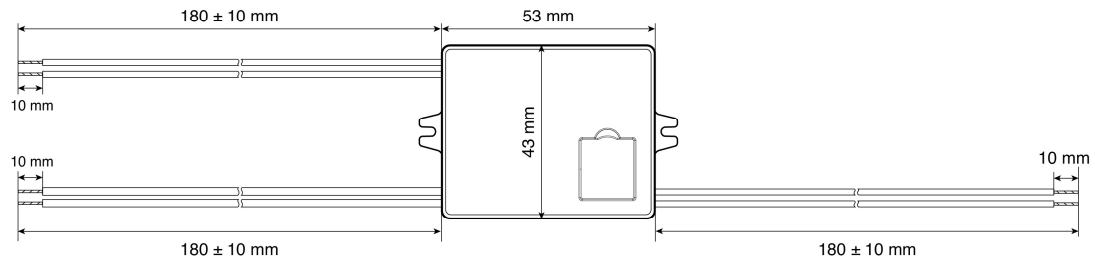
Installation

Cable length, input side	180 ± 10 mm	
Cable length, output side	180 ± 10 mm	
Cable length, DALI	180 ± 10 mm	
Cable cross-section, input side	2 x 0.75 mm ²	
Cable cross-section, output side	2 x 22AWG	
Cable cross-section, DALI	2 x 0.5 mm ²	
Cable preparation length, input side	10 mm	
Cable preparation length, output side	10 mm	
Cable preparation length, DALI	10 mm	
Circuit breaker (230V)	10A Type B: 70	10A Type C: 125
	13A Type B: 91	13A Type C: 162
	16A Type B: 112	16A TypeC: 200
	20A Type B: 140	20A Type C: 250

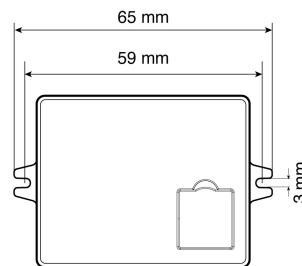
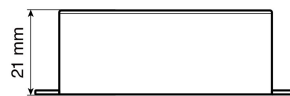
Dimension

DALI(PUSH) (2 x 0.5 MM²)
VIOLET (L)
GREY (N)

DC OUTPUT (2 x 22 AWG)
RED (+)
BLACK (-)



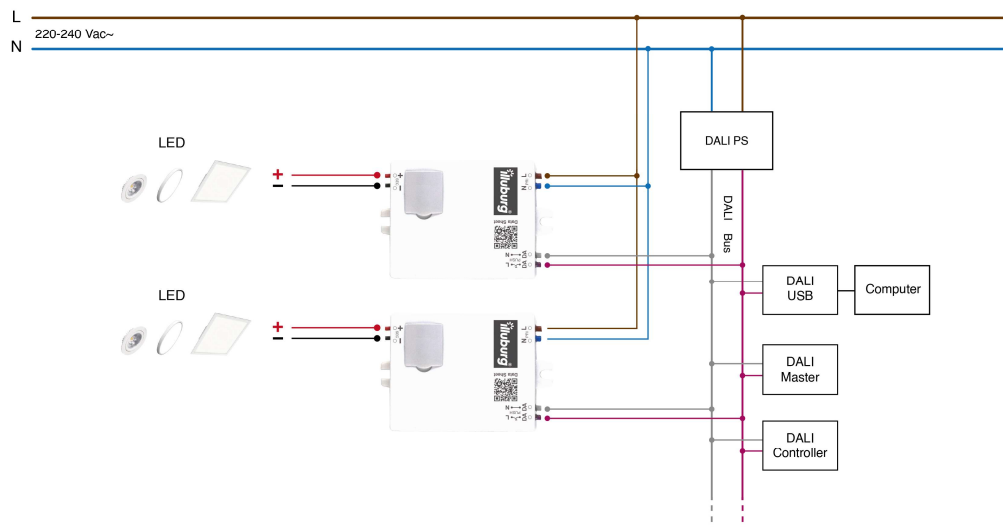
AC INPUT (2 x 0.75 MM²)
BROWN (L)
BLUE (N)



Unspecified tolerance: ±2

Connection

DALI Dimming (parallel)

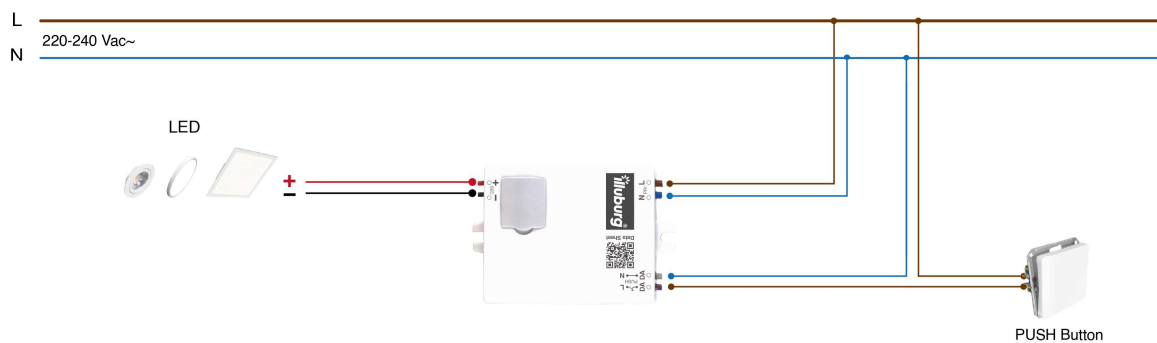


[illegible]

The diagram shows two identical lighting circuits. Each circuit consists of an LED light fixture and a push button. The LED fixture is connected to the L (Line) and N (Neutral) wires. The push button is connected to the L (Line) and N (Neutral) wires. The wiring is as follows:

- The L (Line) wire is connected to the L terminal of the LED fixture and the L terminal of the push button.
- The N (Neutral) wire is connected to the N terminal of the LED fixture and the N terminal of the push button.

Primary side PUSH Dimming (single)



Control via PUSH Button

Status	Action	Duration	Function
LED on	Click once	< 1 s	Turn off LED drivers
LED off			Turn on LED drivers with last brightness setting
LED on	Press and hold	1 - 8 s	Dim up/down (direction changes with each press)
LED on	Hold → Click → Hold	15 s → < 1 s → > 1 s	Synchronize all drivers to 50% brightness*

* For connection of multiple LED drivers in parallel with a single PUSH button

Important notice

Download the safety instructions at www.illuburg.de/infocenter, read them carefully and observe the listed instructions and information for proper use.

Disclaimer of liability

Subject to changes and errors excepted. Make sure you are using the latest version.

Manufacturer Information

If you have any further questions, please contact our technical support.

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