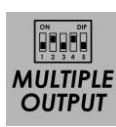


Datasheet & User Manual

Model: LS-16CS-DALI2

LED power supply with adjustable output current
16.2 W max., IP20, independent installation
dimmable with DALI-2, PUSH (pri.)
Flicker-free according to IEEE 1789



Exploded view



Electrical data

Rated input voltage	220...240 Vac	
Range of input voltage	198...264 Vac	
Range of input voltage (DC)	176...280 Vdc	
Mains frequency	50/60 Hz	
Power factor (λ)	0.95	Full load, 230 Vac
Input current	0.11 A max.	
Inrush current	2.38 A max.	
No-load loss	≤ 0.5 W	
Output options	100 mA: 2.5...42 Vdc, 4.2 W 200 mA: 2.5...42 Vdc, 8.4 W 300 mA: 2.5...42 Vdc, 12.6 W 400 mA: 2.5...40 Vdc, 16.0 W	150 mA: 2.5...42 Vdc, 6.3 W 250 mA: 2.5...42 Vdc, 10.5 W 350 mA: 2.5...42 Vdc, 14.7 W 450 mA: 2.5...36 Vdc, 16.2 W
Efficiency	85 %	Full load, 230 Vac
Lifetime	> 50,000 h	Tc: 80 °C
Dimming	DALI-2 (DT-6), PUSH (pri.)	
Dimming range:	1...100 %	

Operating condition

Operating temperature range (t_a)	-20...+45 °C
Max. Surface temperature (t_c)	85 °C
Permitted rel. humidity	20...90 %
Protection class	II
Type of protection	IP20

Protection

Short circuit protection	Yes *	
Overload protection	Yes *	103...120 %
Over-voltage protection	Yes *	> 59 Vdc
Overheating protection	Yes *	

(*) The output shuts off and resumes after the problem has been removed and the LED driver has been restarted.

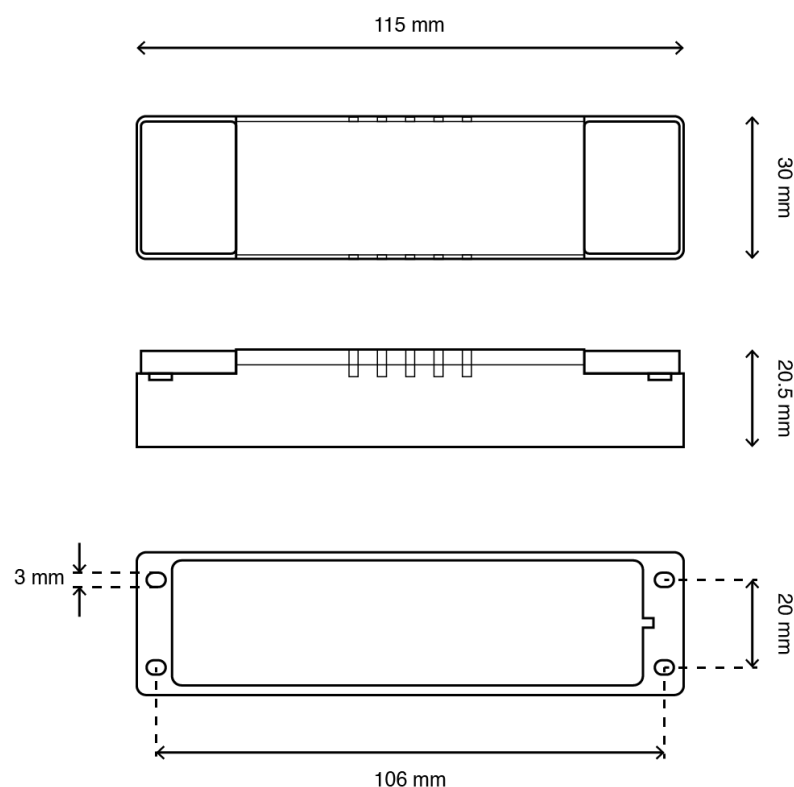
Standards

Standards	EN 61347-1, EN 61347-2-13, EN 62384, EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547, EN 62493, EN 61000-4-5
DALI Standard (DT-6)	IEC 62386-101, 102, 207, 251, 252, 253
Marking	CE, UKCA
RoHS compliant	Yes

Installation

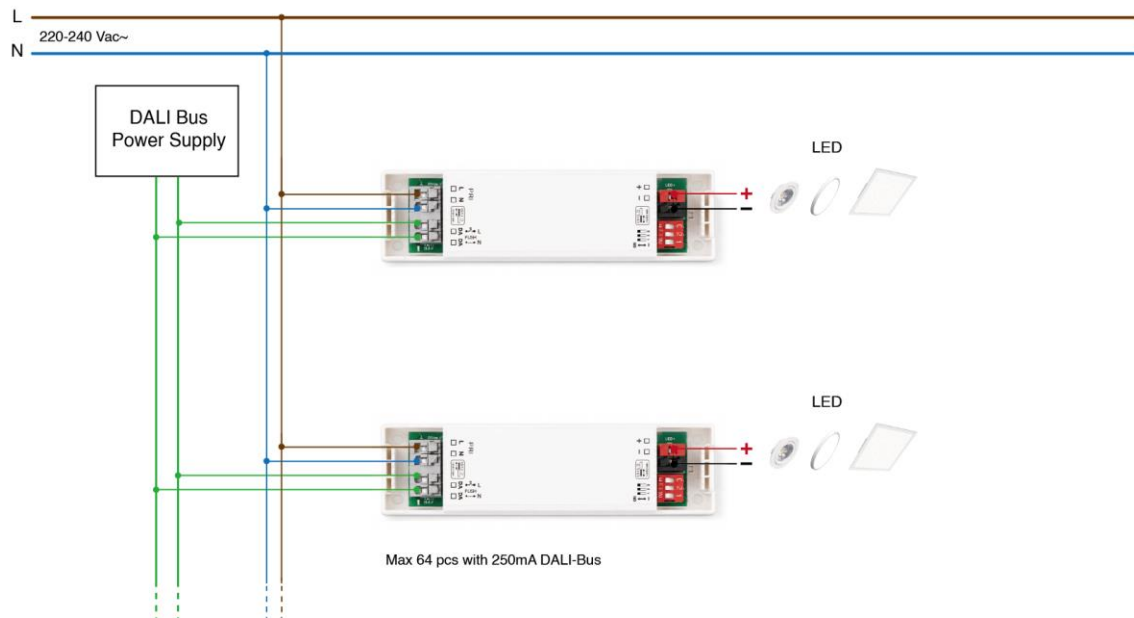
Type of installation	Independent installation	
Type of connection	Spring-loaded terminal	
Cable cross-section, input side	0.5...1.5 mm ²	
Cable cross-section, output side	0.5...1.5 mm ²	
Cable preparation length, input side	8...9 mm	
Cable preparation length, output side	8...9 mm	
Circuit breaker (230V)	B10: 72 pcs. B16: 116 pcs. B20: 145 pcs.	C10: 72 pcs. C16: 116 pcs. C20: 145 pcs.

Dimension

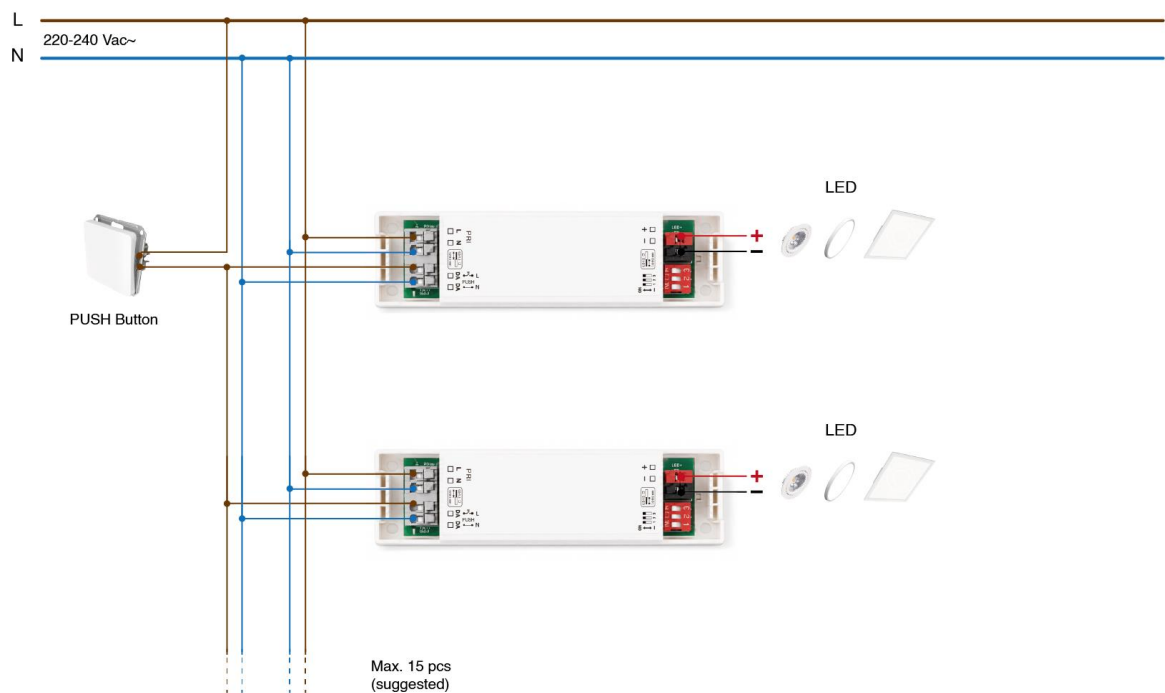


Connection

DALI Dimming



Primary side PUSH Dimming

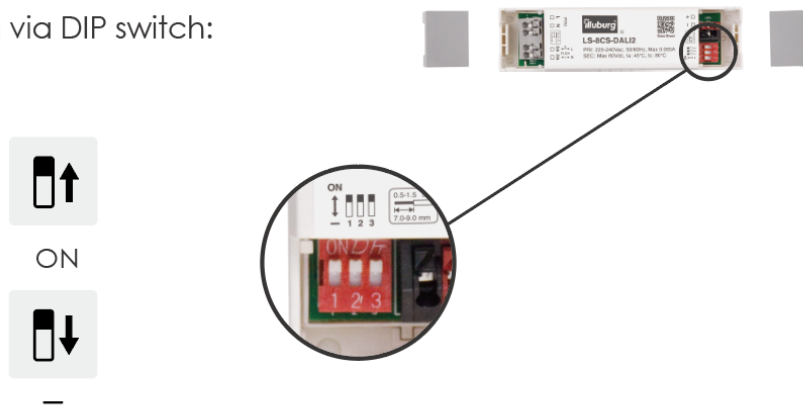


Output Current Selection



Select the required output current using the DIP switch, before wiring and commissioning.

Selection via DIP switch:



1	2	3	Output current	Output voltage	Output power
—	—	—	100 mA	2.5-42 Vdc	0.3-4.2 W
ON	—	—	150 mA	2.5-42 Vdc	0.4-6.3 W
—	ON	—	200 mA	2.5-42 Vdc	0.5-8.4 W
ON	ON	—	250 mA	2.5-42 Vdc	0.6-10.5 W
—	—	ON	300 mA	2.5-42 Vdc	0.8-12.6 W
ON	—	ON	350 mA	2.5-42 Vdc	0.9-14.7 W
—	ON	ON	400 mA	2.5-40 Vdc	1.0-16.0 W
ON	ON	ON	*450 mA	2.5-36 Vdc	1.1-16.2 W

*Factory setting



Always disconnect the power supply BEFORE setting the DIP switch to avoid device damage or electric shock.

PUSH Dimming Control

The LED driver supports control via an external momentary PUSH button. Connect the LED driver according to the wiring diagram.



Short press PUSH button < 0.5 s

ON / OFF:

Switches the light on or off.



Press briefly twice < 0.5 s

LED on:

Save current brightness level.

LED off:

Delete saved brightness level and switch on at 100% brightness.



Long press PUSH button 0.5 - 14 s

brighter / darker:

Adjusts the brightness level.

Dimming direction changes with each long press.



Long press PUSH button 15 s - 2 min

Synchronization:

Synchronize all LEDs to 100% brightness.



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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