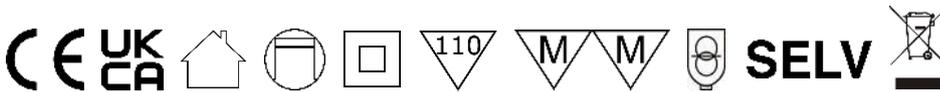


Datasheet & Operating instructions

Model: LS-180V24G-DALI2

LED power supply for 24 Vdc constant voltage
7.5 A (180 W) max., IP20, independent installation
dimmable with DALI, PUSH (pri.)
Flicker-free according to IEEE 1789



Exploded view



Electrical data

Rated input voltage	220...240 Vac
Range of input voltage (AC)	198...264 Vac
Range of input voltage (DC)	180...280 Vdc
Mains frequency	50/60 Hz
Power factor (λ)	≥ 0.95 220-240 Vac, Rated load
Input current	0.95 A max.
No-load loss	≤ 0.5 W
Inrush current	60 A max.
Leakage current	I/P to O/P < 0.7 mA
Output voltage	24 Vdc
Output current	2.25 A...7.5 A
Output power (nominal)	180 W max.
Efficiency	$\geq 92\%$
Life time	$> 50,000$ h
Dimming	DALI-2 (1-100%) PUSH (pri.) (1-100%)

Operating condition

Operating temperature range (t_a)	-20...+50 °C
Max. Surface temperature (t_c)	90 °C
Permitted rel. humidity	10...90 %
Protection class	II
Type of protection	IP20

Protection

Short circuit protection	Yes *
Overcurrent protection	Yes *
Overvoltage protection	Yes * 110%...150%
Overheating protection	Yes * $90 < T_c < 110$ °C
No-load protection	Yes *

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

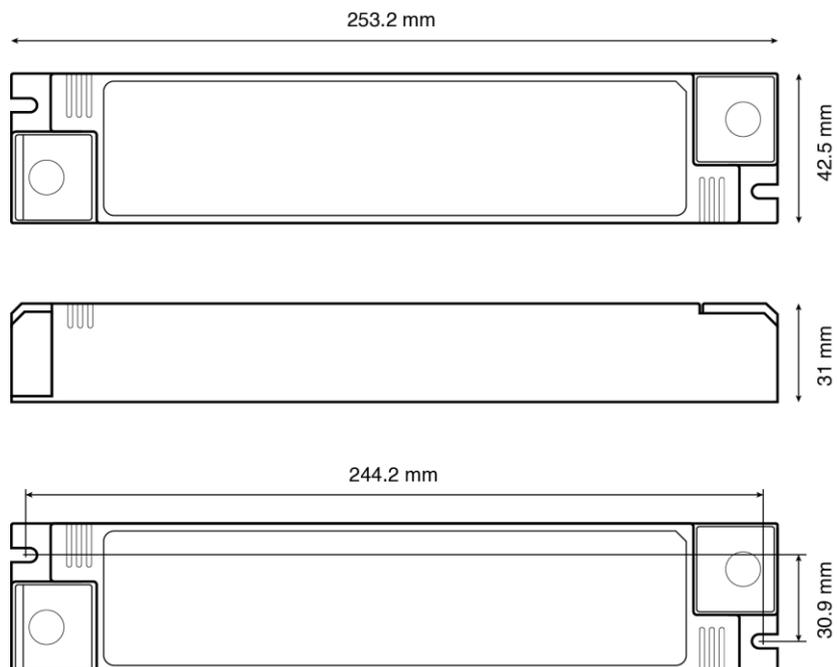
Standards

Standards	EN 61347-1, EN 61347-2-13 EN 62384, EN 55015, EN 61547 EN 62493, EN 61000-3-2, EN 61000-3-3
Dali Standard (DT-6)	DALI-2 certified incl. Parts 251, 252, 253, CLO
Marking	CE, UKCA
RoHS compliant	Yes

Installation

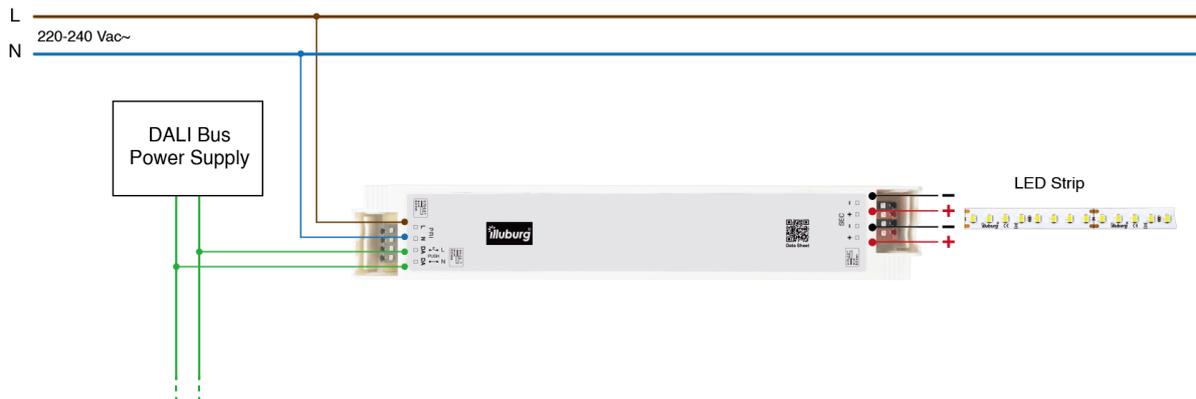
Type of installation	Independent installation	
Type of connection	Spring-loaded terminal	
Cable cross-section, input side	0.75...2.0 mm ²	
Cable cross-section, output side	0.75...2.0 mm ²	
Cable cross-section, DALI	0.5...2.0 mm ²	
Cable preparation length, input side	6.0...9.0 mm	
Cable preparation length, output side	6.0...9.0 mm	
Cable preparation length, DALI	6.0...9.0 mm	
Circuit breaker (230V)	10A Type B: 11 pc. 13A Type B: 14 pc. 16A Type B: 17 pc. 20A Type B: 21 pc. 25A Type B: 27 pc.	10A Type C: 17 pc. 13A Type C: 22 pc. 16A Type C: 27 pc. 20A Type C: 34 pc. 25A Type C: 43 pc.

Dimension

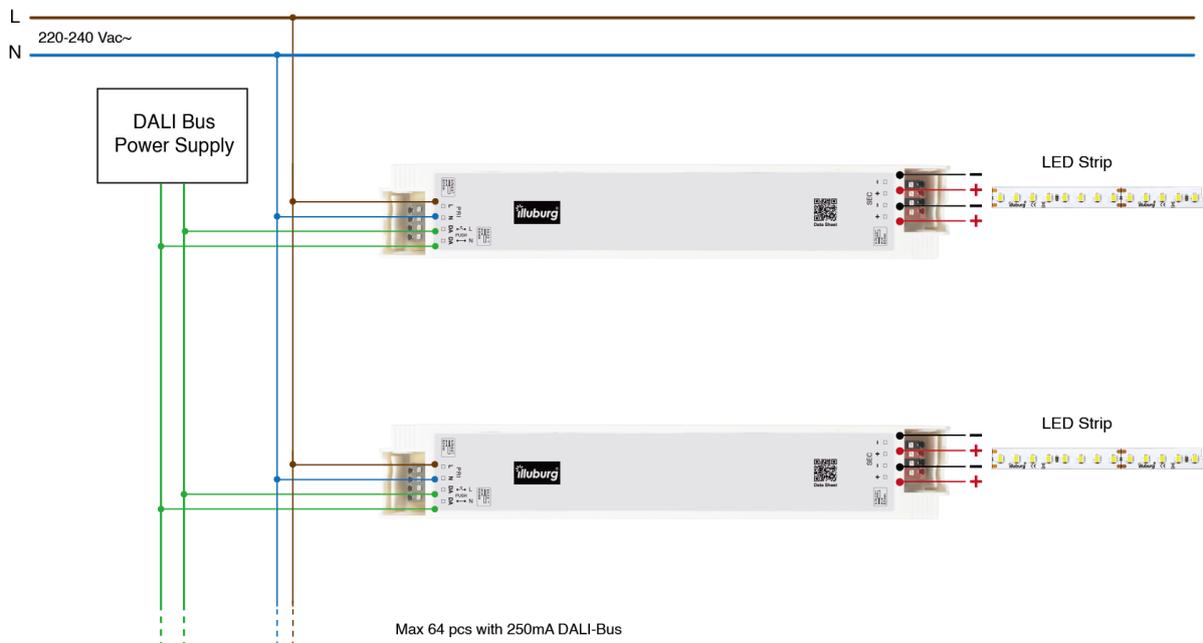


Connection

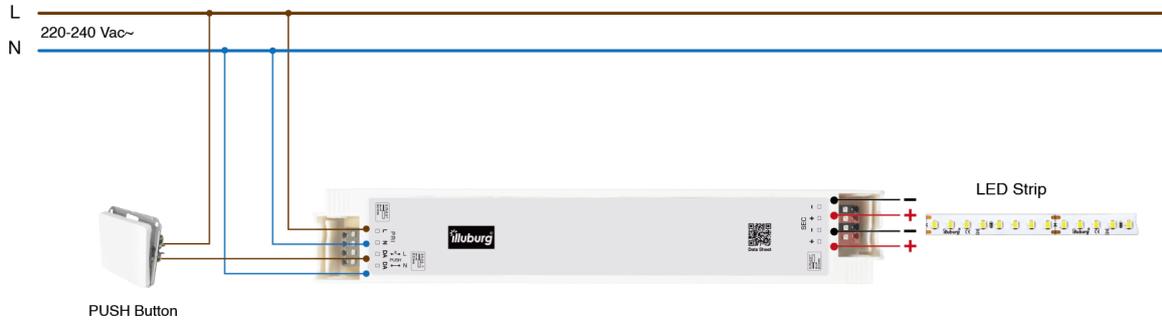
DALI Dimming (single)



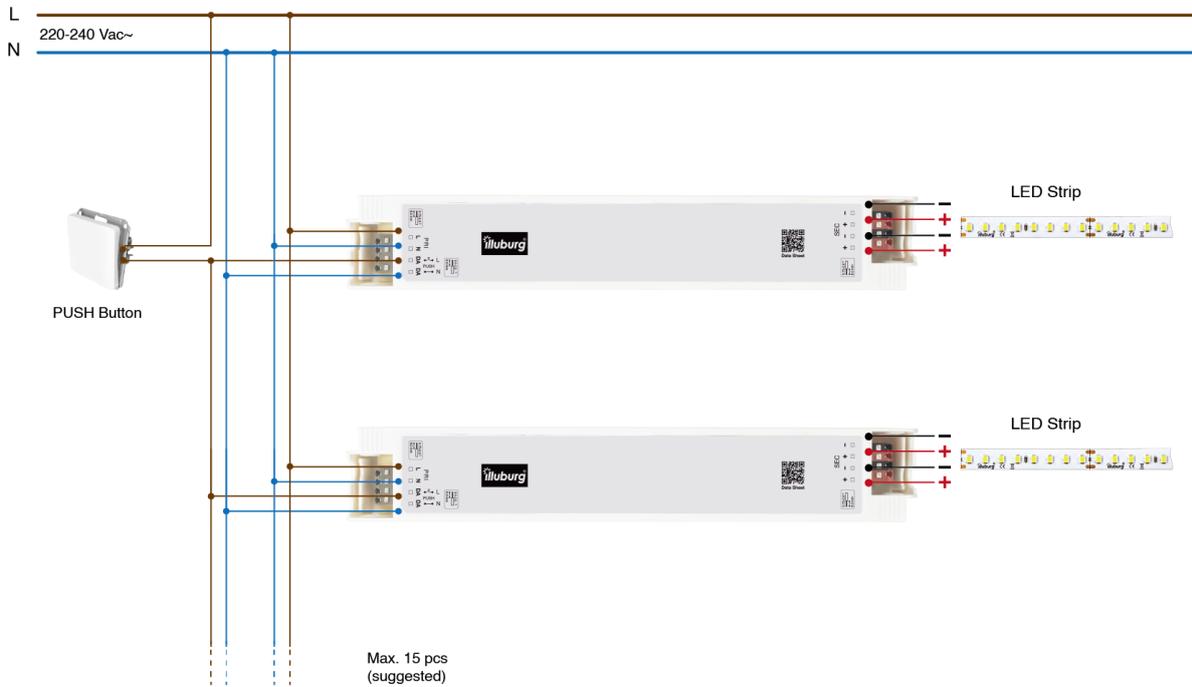
DALI Dimming (parallel)



Primary side PUSH Dimming (single)



Primary side PUSH Dimming (parallel)



Control via PUSH Button (**)

Status	Action	Duration	Function
LED on	Click once	< 0.6 s	Turn off LED drivers
LED off			Turn on LED drivers with last brightness setting
LED on	Press and hold	0.6-3s	Dim brightness up / down. The dimming direction changes each time the button is pressed
LED on		10 s	Synchronize all LED drivers with 50 % brightness*
LED off		> 0.6 s	Turn on and synchronize all LED drivers with 5 % brightness*

* In case of parallel connection with multiple LED power supplies using single PUSH button

** Use of push button with indicator lamp is not permitted.

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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