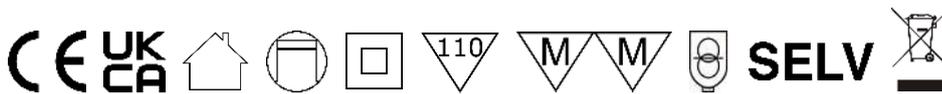


# Datasheet & Operating instructions

## Model: LS-250V24G-DALI2

LED power supply for 24 Vdc constant voltage  
10.42 A (250 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 ( $\lambda$ )	$\geq 0.95$	220-240 Vac, Rated load
Input current	1.3 A max.	
No-load loss	$\leq 0.5$ W	
Inrush current	70 A max.	
Leakage current	I/P to O/P <0.7mA	
Output voltage	24 Vdc	
Output current	3.12 A...10.42 A	
Output power (nominal)	250 W max.	
Efficiency	$\geq 93\%$	
Lifetime	> 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 *	$90 < T_c < 110^\circ\text{C}$
No-load protection	Yes *	

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

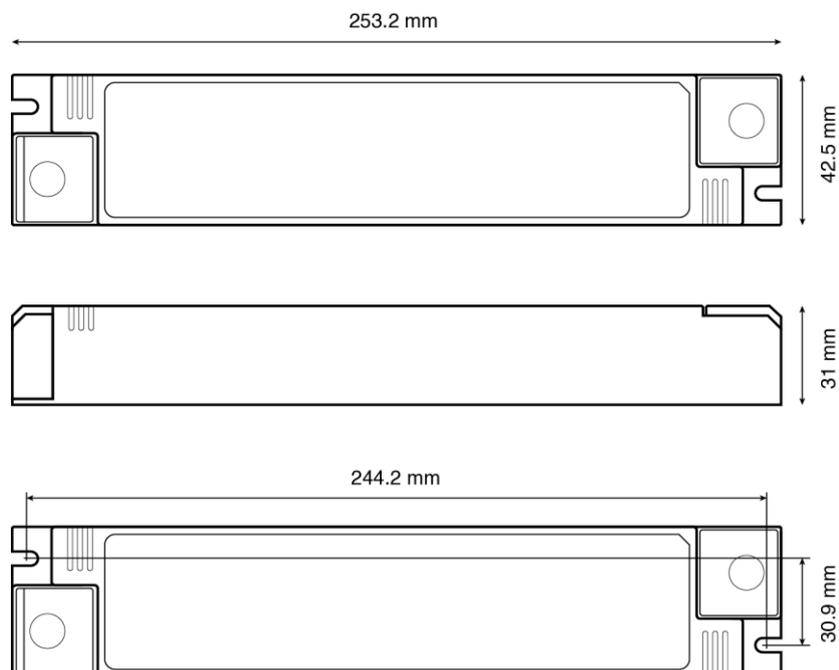
## Standards

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

## Installation

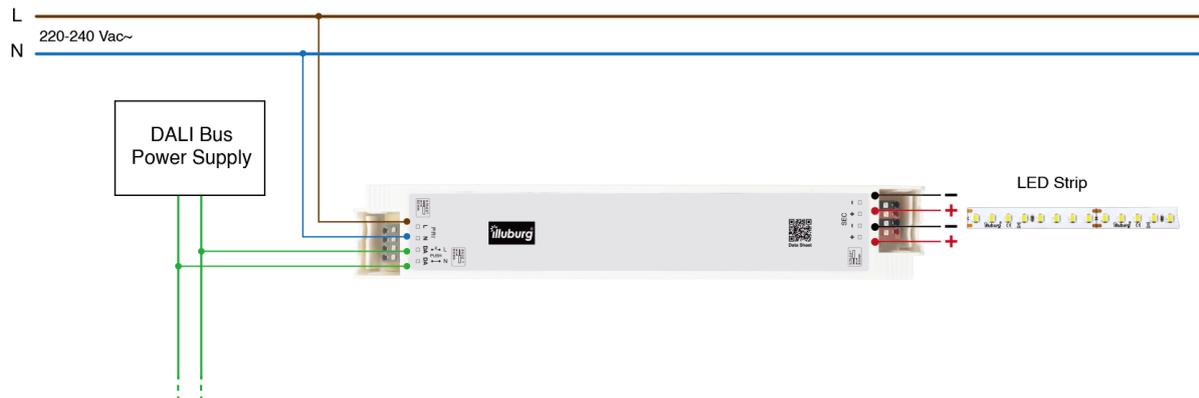
<b>Type of installation</b>	Independent installation	
<b>Type of connection</b>	Spring-loaded terminal	
<b>Cable cross-section, input side</b>	0.75...2.0 mm <sup>2</sup>	
<b>Cable cross-section, output side</b>	0.75...2.0 mm <sup>2</sup>	
<b>Cable cross-section, DALI</b>	0.5...2.0 mm <sup>2</sup>	
<b>Cable preparation length, input side</b>	6.0...9.0 mm	
<b>Cable preparation length, output side</b>	6.0...9.0 mm	
<b>Cable preparation length, DALI</b>	6.0...9.0 mm	
<b>Circuit breaker (230V)</b>	10A Type B: 9 pc. 13A Type B: 12 pc. 16A Type B: 14 pc. 20A Type B: 18 pc. 25A Type B: 22 pc.	10A Type C: 14 pc. 13A Type C: 19 pc. 16A Type C: 23 pc. 20A Type C: 29 pc. 25A Type C: 36 pc.

## Dimension

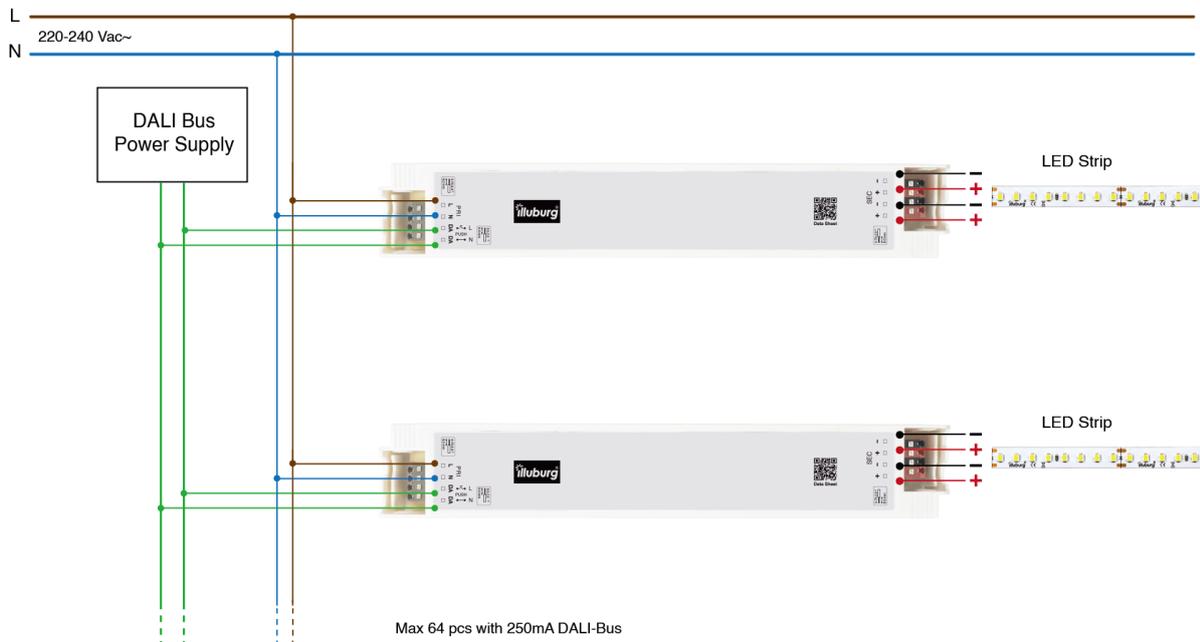


## Connection

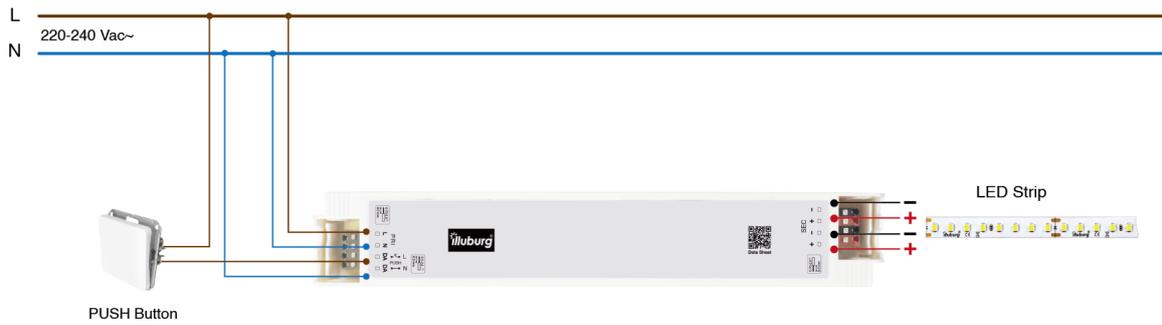
### DALI Dimming (single)



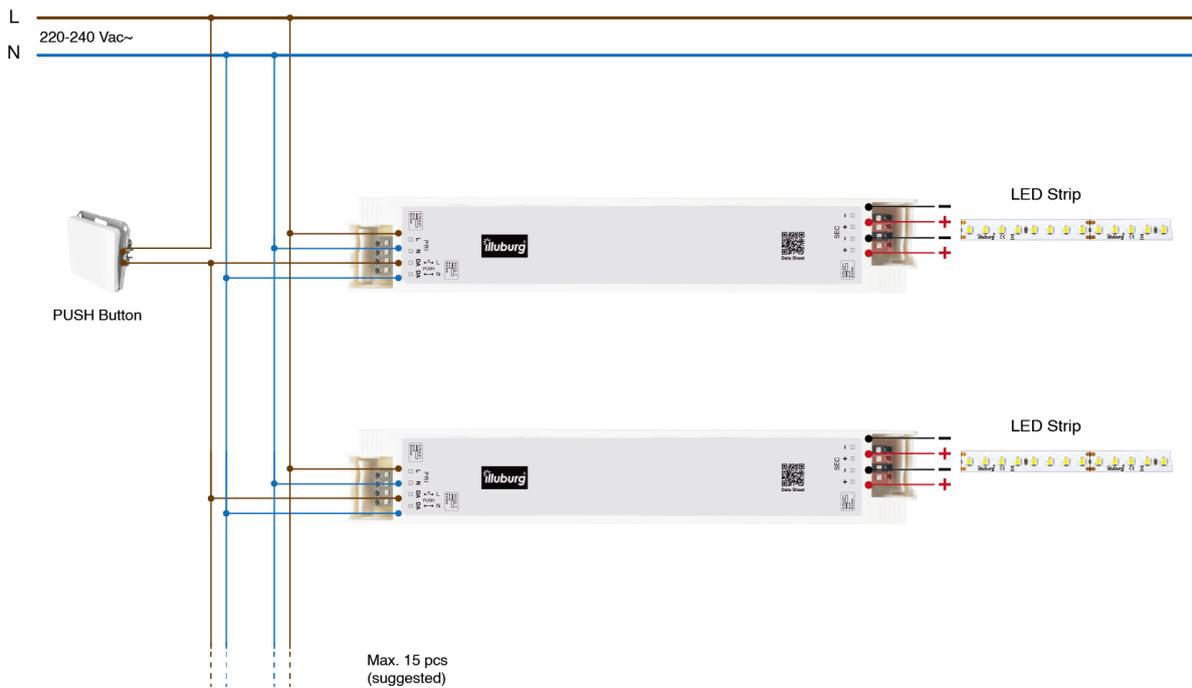
### DALI Dimming (parallel)



### 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](http://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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