# **D** Lunatone

### **DALI PS2 30mA**



Datasheet

DALI Bus Power Supply Unit

DALI-line power supply

Art. Nr. 24033444-30

## **DALI PS2 30mA** Bus Power Supply

#### Overview

- DALI bus power supply unit
- guaranteed Supply Current 30mA
- maximum Supply Current 250mA
- suitable to power an DALI-line with up to 15 standard DALI ballasts
- suitable for back box installation and integration in protection class II devices

- power supply range 110Vac ... 240Vac for worldwide use
- surge immunity up to 400V







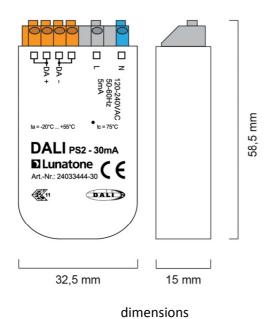
### Specification, Characteristics

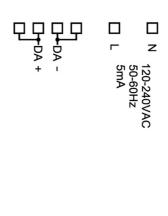
type	DALI PS2 30mA	
article number	24033444-30	
input: L, N		
input type	mains power supply	
marking input terminals	L, N	
input voltage range	110Vac 240Vac	
max. input supply current	5mA	
input supply frequency	50Hz / 60Hz	
power consumption max.	1W	
startup time	250ms	
output: DA+, DA-		
output type	DALI Supply	
marking output terminals	DA+, DA-	
output voltage range	12Vdc 20,5Vdc	
DALI supply current	40mA	
guaranteed DALI supply current	30mA	
max. DALI supply current	250mA	
open circuit proof	yes	
short circuit proof	yes	
insulation data:		
impulse voltage category	II	
pollution degree	2	
rated insulation voltage	250V	
rated impulse withstanding voltage	4kV	
insulation DALI / mains	reinforced isolation	
Insulation test voltage DALI / mains	3000V a.c.	
enviromental conditions:		_



markings

	20%
storing and transportation temperature	-20°C +75°C
operational ambient temperature	-20°C +55°C
rel. humidity, none condensing	15% 90%
general data:	
dimensions (I x w x h)	59mm x 33mm x 15mm
mounting	back box installation
	integration in protection class II device
rated maximum temperature tc	75°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20
terminals:	
connection type	spring terminal connector
wire size solid core	0,5 1,5 mm <sup>2</sup> (AWG20 AWG16)
wire size fine wired	0,5 1,5 mm <sup>2</sup> (AWG20 AWG16)
wire size using wire end ferrule	0,25 1 mm <sup>2</sup>
stripping length	8,5 9,5 mm / 0,33 0,37 inch
standards:	
DALI	EN 62386-101:2014
EMC	EN 61547
	EN50015 / IEC CISPR15
safety	EN 61347-2-11
	EN 61347-1





DALI-2, ENEC-11, CE

connectors

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#### Installation

- The DALI PS2 30mA is intended for back box installation
- Ensure proper working cable relief for installation in protection class II equipment
- Wiring as fixed installation in a dry and clean environment
- Installation only by qualified person when no voltage is applied
- Attend regulations regarding electrical installations of national authorities
- connect power supply terminals L and N to mains voltage
- the polarity of the output voltage is marked on the housing (DA+, DA-)
- The DALI-line may be installed within the same cable or as single conductors within the same tube as mains supply

- The DALI-line must not be connected to the mains or other extra low voltage systems
- DALI-line wiring with standard low voltage installation material
- Wiring topology of the DALI-line: Line, Tree, Star



**HINT**: The DALI-signal is not classified as SELV circuit. Therefore the standards for installation in low voltage system apply.

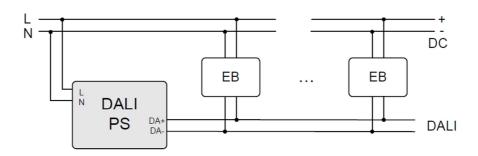


The voltage drop on the DALI-line shall not exceed 2V.

 Don't use standard DC power supplies on the DALI-line, since they do not meet the requirements for DALI communication



**HINT**: an improper DALI power supply can cause damage on DALI devices!



wiring diagram

#### Commissioning

- The DALI power supply is ready for use
- Make sure that the guaranteed supply current exceeds the current consumption of all bus devices

#### **Purchase Order Information**

**Art.Nr. 24033444-30**: DALI PS2 30mA, guaranteed DALI supply current 30mA, back box installation

## Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <a href="http://lunatone.at/de/dali-systeme/software/">http://lunatone.at/de/dali-systeme/software/</a>

Lunatone DALI products <a href="http://www.lunatone.at/de/">http://www.lunatone.at/de/</a>

Lunatone datasheets and manuals <a href="http://lunatone.at/de/downloads/">http://lunatone.at/de/downloads/</a>

#### Contact

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Requests: sales@lunatone.com





#### Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The function in installations with other devices must be tested for compatibility in advance.