

DALI PS24 100mA



Datasheet

DALI Bus Power Supply Unit

DALI-line power supply

Art. Nr. 24033444-24VDO

DALI PS24 100mA Bus Power Supply

Overview

- DALI bus power supply unit
- guaranteed Supply Current 100mA
- maximum Supply Current 250mA
- suitable to power an DALI-line with up to 50 standard DALI ballasts
- suitable for back box installation and integration in protection class II devices
- power supply range 24Vdc ... 48Vdc



Specification, Characteristics

type	DALI PS24 100mA
article number	24033444-24VDO
input: +, -	
input type	supply, dc voltage
marking input terminals	+, -
input voltage range	24Vdc ... 48Vdc
max. input supply current	100mA
power consumption max.	4W
startup time	250ms
output: DA+, DA-	
output type	DALI Supply
marking output terminals	DA+, DA-
output voltage range	12Vdc ... 20,5Vdc
DALI supply current	100mA
guaranteed DALI supply current	100mA
max. DALI supply current	250mA
open circuit proof	yes
short circuit proof	yes
insulation data:	
insulation DALI / mains	reinforced isolation
enviromental conditions:	
storing and transportation temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +55°C
rel. humidity, none condensing	15% ... 90%

general data:

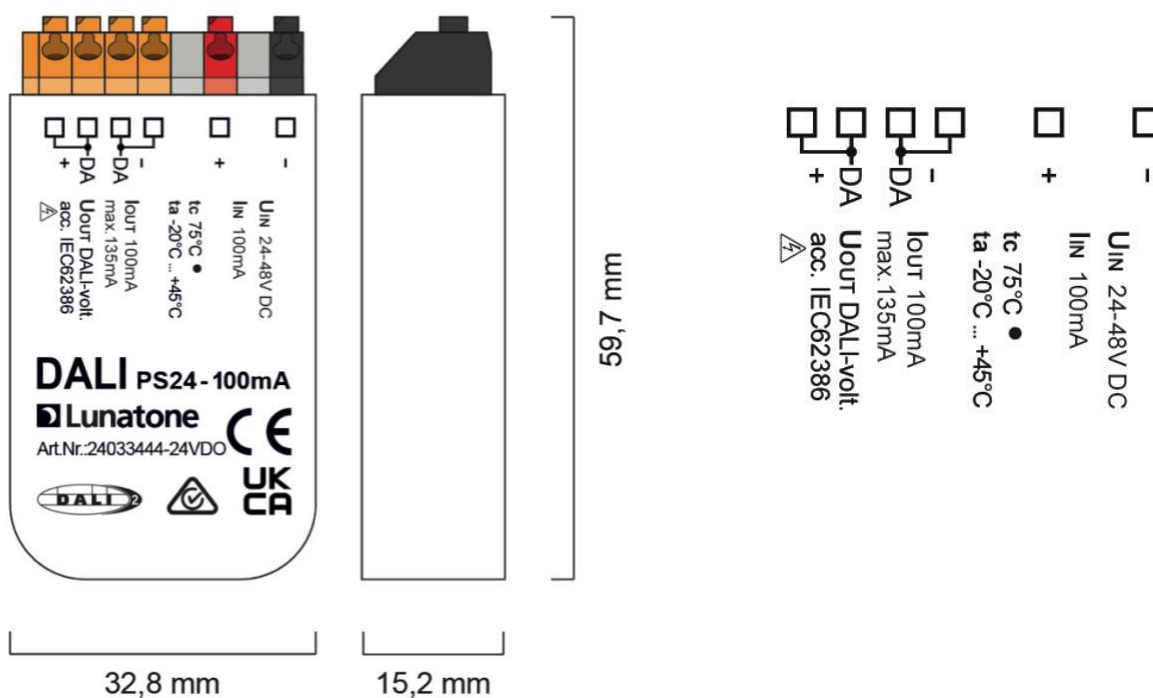
dimensions (l x w x h)	59mm x 33mm x 15mm
mounting	back box installation integration in protection class II device
rated maximum temperature tc	75°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

terminals:

connection type	spring terminal connector
wire size solid core	0,5 ... 1,5 mm ² (AWG20 ... AWG16)
wire size fine wired	0,5 ... 1,5 mm ² (AWG20 ... AWG16)
wire size using wire end ferrule	0,25 ... 1 mm ²
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
markings	DALI-2, CE



Dimensions

connectors

Installation

- The DALI PS24 100mA is intended for back box installation or in an enclosure
- 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 dc supply voltage to terminals + and - with respect to polarity
- 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.

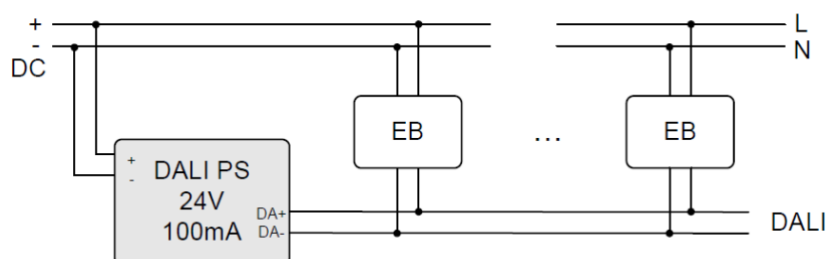


The voltage drop on the DALI-line shall not exceed 2V.

- 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. 24033444-24VDO: DALI PS24 100mA, guaranteed DALI supply current 100mA, back box installation

Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems

<https://www.lunatone.com/en/product/dali-cockpit/>

Lunatone DALI products

<https://www.lunatone.com/en/>

Lunatone datasheets and manuals

<https://www.lunatone.com/en/downloads-a-z/>

Contact

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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.