

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 18Vdc ... 48Vdc



Specification, Characteristics

| | |
|--|------------------------|
| type | DALI PS24 100mA |
| article number | 24033444-24VDO |
| input: +, - | |
| input type | supply, dc voltage |
| marking input terminals | +, - |
| input voltage range | 18Vdc ... 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:

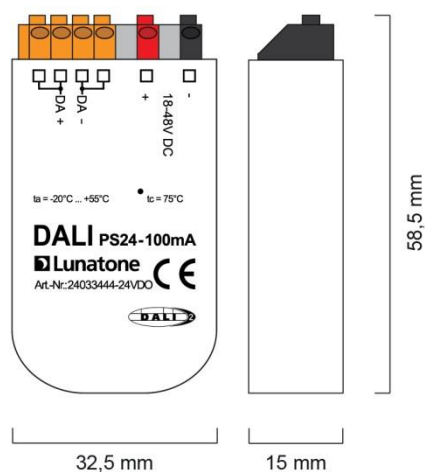
| | |
|---------------------------------|--|
| dimensions (l x w x h) | 59mm x 33mm x 15mm |
| mounting | back box installation integration in protection class II device |
| rated maximum temperature t_c | 75°C |
| expected life time @ t_c | 50.000 h |
| protection class | II in intended use |
| protection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

terminals:

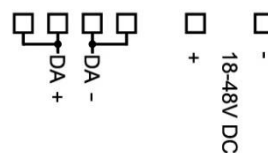
| | |
|----------------------------------|---|
| connection type | spring terminal connector |
| wire size solid core | 0,5 ... 1,5 mm ² (AWG20 ... AWG16) |
| wire size fine wired | 0,5 ... 1,5 mm ² (AWG20 ... AWG16) |
| wire size using wire end ferrule | 0,25 ... 1 mm ² |
| stripping length | 8,5 ... 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.

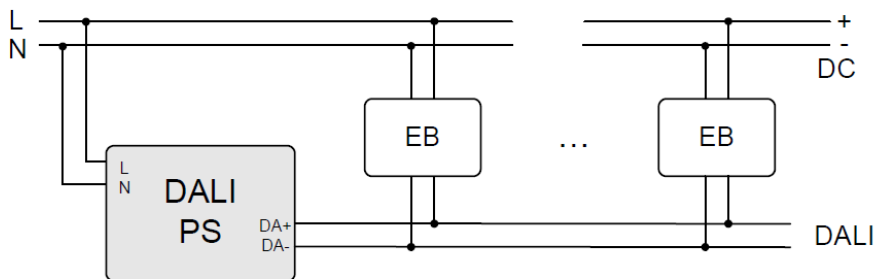


The voltage drop on the DALI-line shall not exceed 2V.

- 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

Datasheets and manuals

<https://jumitech/produkter>

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

http://lunatone.at/en/downloads/Lunatone_DALI-Cockpit.zip

Contact

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www.jumitech.dk

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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.