

DALI PS2

Datasheet

DALI Bus Power Supply Unit



DALI-line power supply

Art. Nr. 24033444-2

DALI PS2 Bus Power Supply

Overview

- DALI bus power supply unit
- guaranteed Supply Current 200mA
- maximum Supply Current 250mA
- suitable to power an entire DALI-line with 64 standard DALI ballasts
- independent electronic device for remote ceiling 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
article number	24033444-2
input: L, N	
input type	mains power supply
marking input terminals	L, N
input voltage range	110Vac ... 240Vac
max. input supply current	40mA (@110Vac), 20mA (@240Vac)
input supply frequency	50Hz / 60Hz
power consumption max.	5,3W
startup time	250ms
output: DA+, DA-	
output type	DALI Supply
marking output terminals	DA+, DA-
output voltage range	12Vdc ... 20,5Vdc
DALI supply current	230mA
guaranteed DALI supply current	200mA
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:

storing and transportation temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +55°C
rel. humidity, none condensing	15% ... 90%

general data:

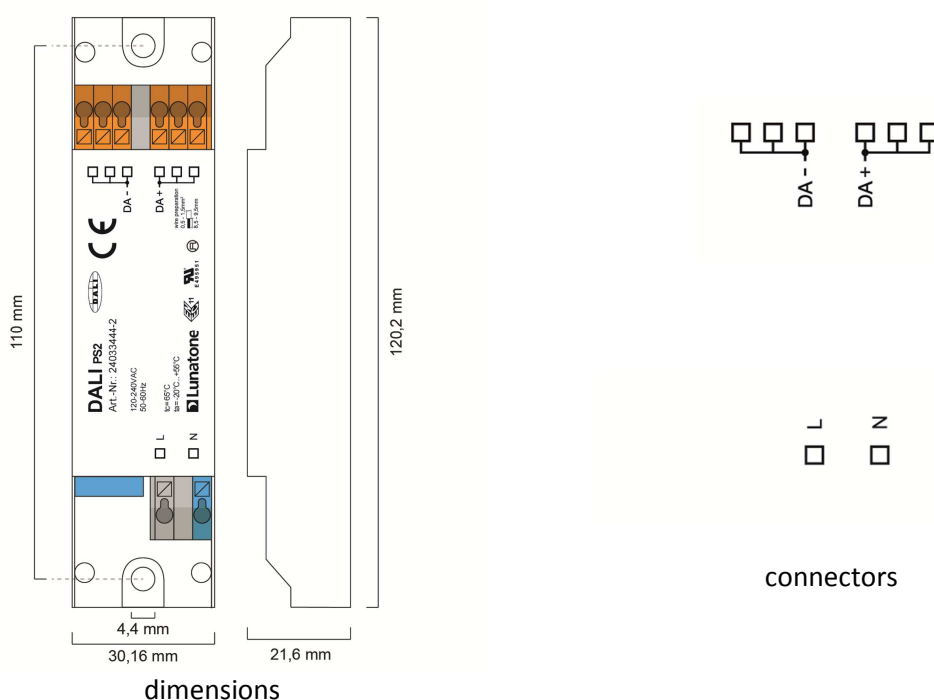
dimensions (l x w x h)	120mm x 30mm x 22mm
mounting	remote ceiling integration in protection class II device
rated maximum temperature tc	65°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

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
EMC	EN 61547 EN50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
markings	ENEC-11, UR, CE
UL file number	E495951



Installation

- The DALI PS2 is intended for remote installation in the ceiling 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 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.

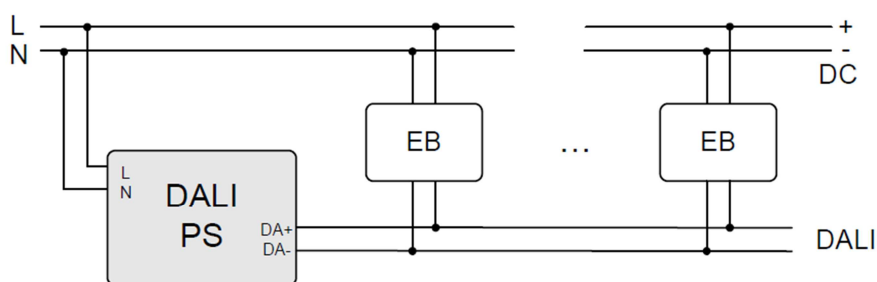


The voltage drop on the DALI-line shall not exceed 2V.

- 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. 24033444-2: DALI PS2, guaranteed DALI supply current 200mA, remote ceiling

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

<http://lunatone.at/de/dali-systeme/software/>

Lunatone DALI products

<http://www.lunatone.at/de/>

Lunatone datasheets and manuals

<http://lunatone.at/de/downloads/>

Contact

Technical Support: support@lunatone.com

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.

Additional Information and Equipment