

## DALI PS

### Datasheet

#### DALI Bus Power Supply Unit

DALI-line power supply

Art. Nr. 24033444



# DALI PS Bus Power Supply

## Overview

- DALI bus power supply unit
- guaranteed Supply Current 220mA
- maximum Supply Current 250mA
- suitable to power an entire DALI-line with 64 standard DALI ballasts
- suitable for dinrail mounting
- power supply range 120Vac ... 240Vac for worldwide use
- surge immunity up to 400V
- load indicator
- integrated test button for function check
- system status queries (DALI current, bus load, runtime etc.) with DALI-Cockpit Software



## Specification, Characteristics

type	DALI PS
article number	24033444
<b>input: L, N</b>	
input type	mains power supply
marking input terminals	L, N
input voltage range	120Vac ... 240Vac
max. input supply current	40mA (@120Vac), 20mA (@240Vac)
input supply frequency	50Hz / 60Hz
power consumption max.	5,3W
startup time	250ms
<b>output: DA+, DA-</b>	
output type	DALI Supply
marking output terminals	DA+, DA-
output voltage range	12Vdc ... 20,5Vdc
DALI supply current	250mA
guaranteed DALI supply current	220mA
max. DALI supply current	250mA
open circuit proof	yes
short circuit proof	yes
shut down on short circuit	yes
<b>insulation data:</b>	
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:

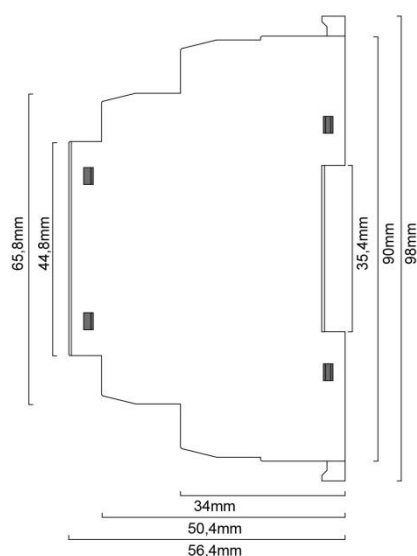
dimensions (l x w x h)	98mm x 17,5mm x 56mm
mounting	dinrail
rated maximum temperature tc	75°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

## terminals:

connection type	screw connector
wire size solid core	0,5 ... 2,5 mm <sup>2</sup> (AWG 20 ... AWG 14)
wire size fine wired	0,5 ... 2,5 mm <sup>2</sup> (AWG 20 ...AWG 14)
wire size using wire end ferrule	0,25 ... 1,5 mm <sup>2</sup>
stripping length	7 mm / 0,27 inch
locking torque	0,5 Nm

## standards:

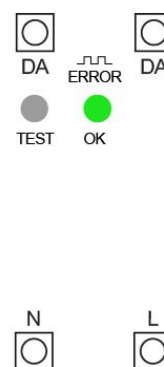
DALI	EN 62386-101:2014
EMC	EN 61547 EN50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
markings	DALI-2, CE, ENEC, cURus
UL file number	E495951



dimensions



17,5mm



connectors

## Installation

- The DALI PS is intended for dinrail mounting
- Ensure protection against electric shock by an appropriate enclosure
- 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
- Wiring check by pressing the test button: the green led is flashing and all luminaires connected to the DALI system will be controlled by a test sequence (on, off, dimming). To quit the test mode press the test button again.



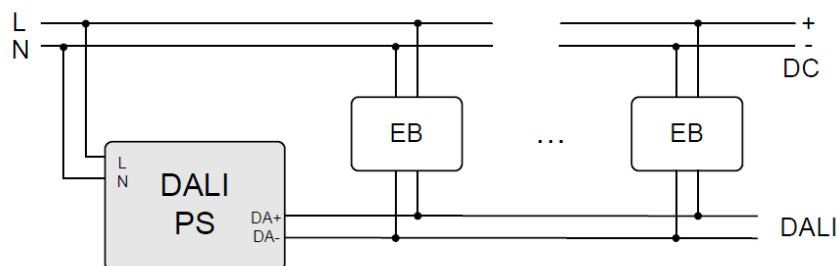
**HINT:** The DALI-signal is not classified as SELV circuit. Therefore the standards for installation in low voltage system apply.



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



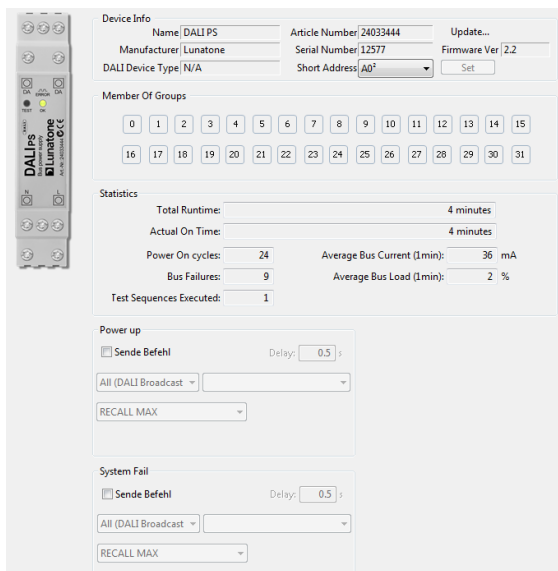
**HINT:** an improper DALI power supply can cause damage on DALI devices!



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
- Status-LED:
  - green: normal operation
  - green flashing: overload/short circuit
- The DALI PS is recognized during the addressing procedure and is shown in the DALI Cockpit. System parameters (bus load, DALI current, runtime etc.) can be read out and the behaviour on system events (power on, return of DALI voltage after a system failure) can be configured.



## 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

Technical Support: [support@jumitech.dk](mailto:support@jumitech.dk)

Requests: [salg@jumitech.dk](mailto:salg@jumitech.dk)

[www.jumitech.dk](http://www.jumitech.dk)

# JUMITECH



## Disclaimer

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## Purchase Order Information

**Art.Nr. 24033444:** DALI PS, guaranteed DALI supply current 220mA, din rail

## 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
<b>input: L, N</b>	
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
<b>output: DA+, DA-</b>	
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
<b>insulation data:</b>	
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:**

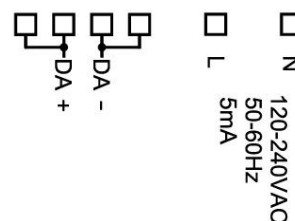
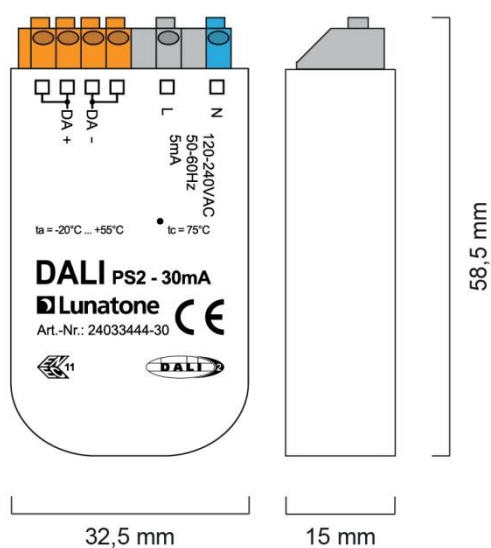
dimensions (l x w x h)	59mm x 33mm x 15mm
mounting	back box installation integration in protection class II device
rated maximum temperature $t_c$	75°C
expected life time @ $t_c$	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

**terminals:**

connection type	spring terminal connector
wire size solid core	0,5 ... 1,5 mm <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
markings	DALI-2, ENEC-11, CE



connectors

dimensions

## 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.

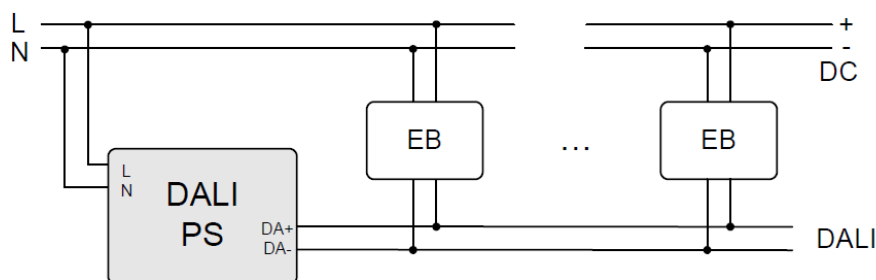


The voltage drop on the DALI-line shall not exceed 2V.

- 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

Datasheets and manuals

<https://jumitech/produkter>

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

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## 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
<b>input: L, N</b>	
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
<b>output: DA+, DA-</b>	
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
<b>insulation data:</b>	
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:**

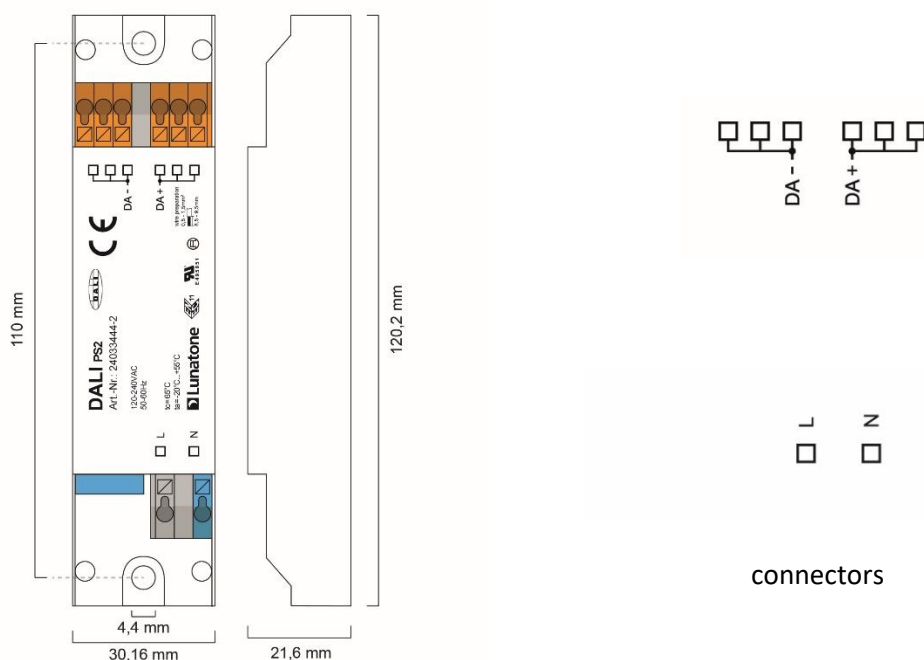
dimensions (l x w x h)	120mm x 30mm x 22mm
mounting	remote ceiling integration in protection class II device
rated maximum temperature tc	65°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

**terminals:**

connection type	spring terminal connector
wire size solid core	0,5 ... 1,5 mm <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
EMC	EN 61547 EN50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
markings	ENEC-11, UR, CE
UL file number	E495951



## dimensions

### 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



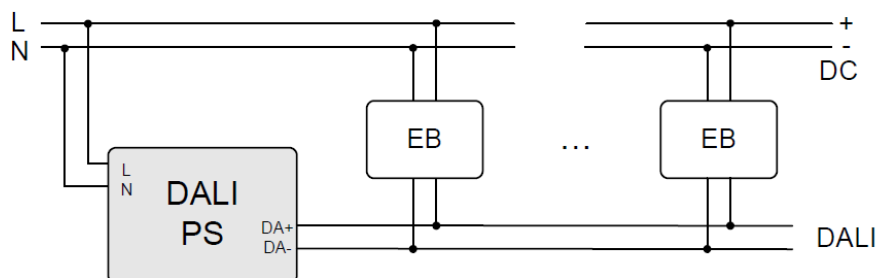
**HINT:** The DALI-signal is not classified as SELV circuit. Therefore the standards for installation in low voltage system apply.



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



**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

## 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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# JUMITECH



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## 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

<b>type</b>	<b>DALI PS24 100mA</b>
article number	24033444-24VDO
<b>input: +, -</b>	
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
<b>output: DA+, DA-</b>	
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
<b>insulation data:</b>	
insulation DALI / mains	reinforced isolation
<b>enviromental conditions:</b>	
storing and transportation temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +55°C
rel. humidity, none condensing	15% ... 90%

**general data:**

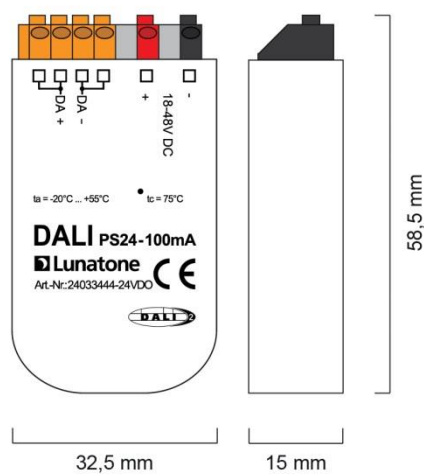
dimensions (l x w x h)	59mm x 33mm x 15mm
mounting	back box installation integration in protection class II device
rated maximum temperature $t_c$	75°C
expected life time @ $t_c$	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

**terminals:**

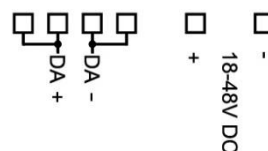
connection type	spring terminal connector
wire size solid core	0,5 ... 1,5 mm <sup>2</sup> (AWG20 ... AWG16)
wire size fine wired	0,5 ... 1,5 mm <sup>2</sup> (AWG20 ... AWG16)
wire size using wire end ferrule	0,25 ... 1 mm <sup>2</sup>
stripping length	8,5 ... 9,5 mm / 0,33 ... 0,37 inch

**standards:**

DALI	EN 62386-101:2014
EMC	EN 61547 EN50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
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



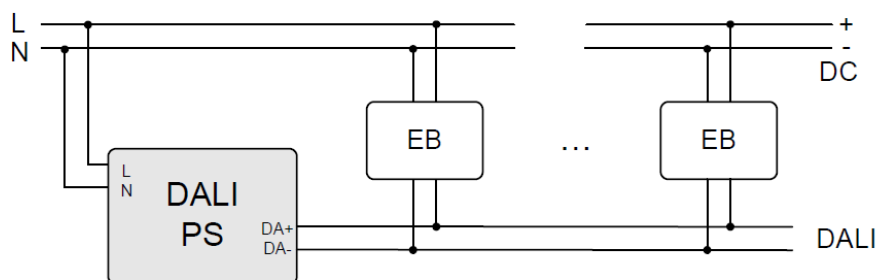
**HINT:** The DALI-signal is not classified as SELV circuit. Therefore the standards for installation in low voltage system apply.



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



**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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# JUMiTECH



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## DAI-line power supply

2018-03-28



# DALI PS128 Bus Power Supply

## Overview

- DALI bus power supply unit
- guaranteed Supply Current 128mA
- 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 PS128
article number	24033444-128
<b>input: L, N</b>	
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.	4W
startup time	250ms
<b>output: DA+, DA-</b>	
output type	DALI Supply
marking output terminals	DA+, DA-
output voltage range	12Vdc ... 20,5Vdc
DALI supply current	150mA
guaranteed DALI supply current	128mA
max. DALI supply current	250mA
open circuit proof	yes
short circuit proof	yes
<b>insulation data:</b>	
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:

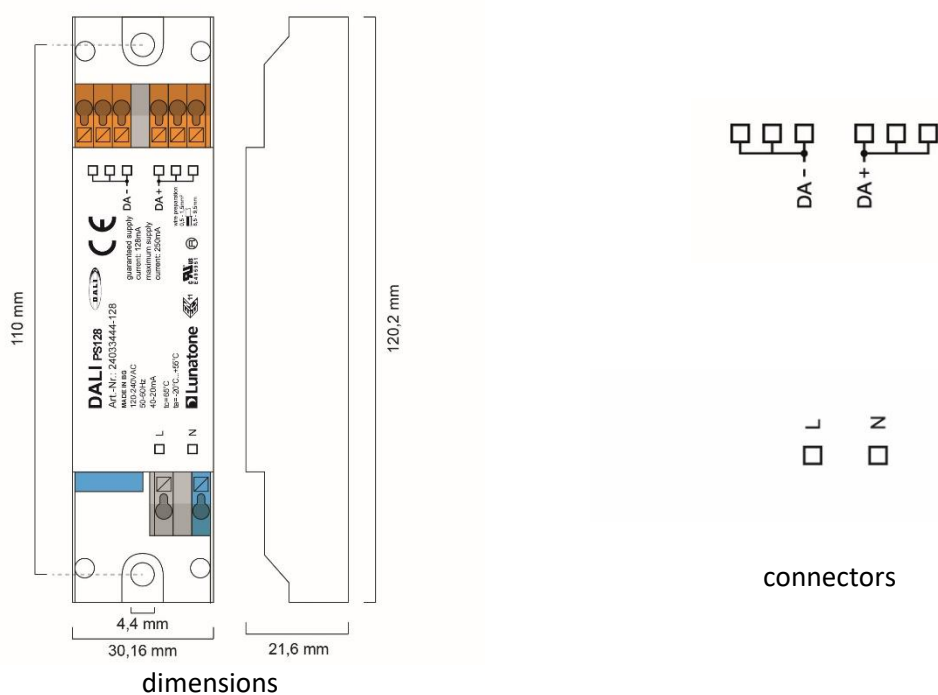
dimensions (l x w x h)	120mm x 30mm x 22mm
mounting	remote ceiling integration in protection class II device
rated maximum temperature tc	65°C
expected life time @tc	50.000 h
protection class	II in intended use
protection degree housing	IP40
protection degree terminals	IP20

## terminals:

connection type	spring terminal connector
wire size solid core	0,5 ... 1,5 mm <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
markings	DALI-2, CE, ENEC-11, cURus
UL file number	E495951



## Installation

- The DALI PS128 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.

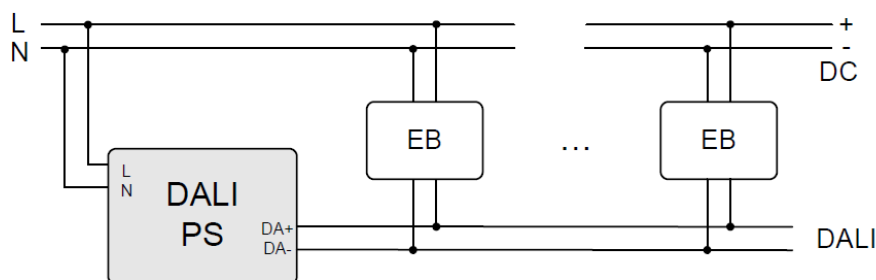


The voltage drop on the DALI-line shall not exceed 2V.

- 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. 24033444-128:** DALI PS128,  
guaranteed DALI supply current 128mA,  
remote ceiling

## Additional Information

Datasheets and manuals

<https://jumitech/produkter>

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

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## Contact

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## PS 24V

### Datasheet

#### Power Supply

24V DC Power Supply

Art. 24166012-24HS



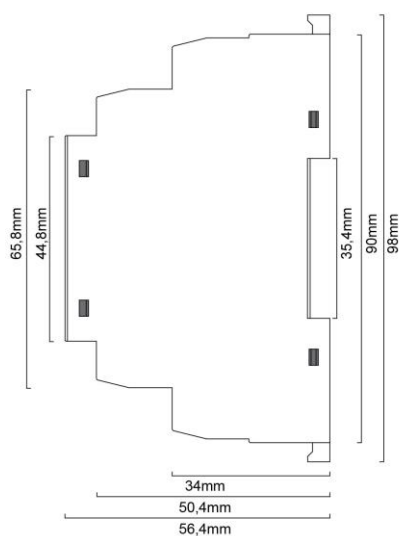
# PS 24V Power Supply

## Overview

- 24V DC Power Supply
- maximum output current of 300mA
- suitable for din rail mounting (1TE)
- Status LED

## Specification, Characteristics

<b>type</b>	<b>PS 24V</b>
article number	24166012-24HS
<b>electrical data:</b>	
input voltage	230VAC
maximum input current	50mA
output voltage	24V DC
maximum output current	300mA
<b>technical data:</b>	
storage and transportation temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +60°C
protection class	IP20
maximum connecting wire crosssection	2,5 mm <sup>2</sup>
mounting	dinrail
dimensions	98 x 17.5 x 56 mm



geometry



connection plan

## Additional Information

Datasheets and manuals

<https://jumitech/produkter>

## Contact

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## Disclaimer

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The datasheet refers to the current delivery.

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