

DGLMPS01 – DALI Power Supply – 1 DALI Line

Product summary and capabilities

Each DALI line in an installation requires a dedicated DALI power supply for correct operation of a DALI system.

DALI products may include conventional DALI lighting, emergency lighting, RGB colour changing control gear, switches, sensors and interface devices. Each of these DALI devices draw power from the DALI line which must be provided by a DALI power supply.

This DALI Power Supply has been expertly designed to ensure the maximum permitted current on a DALI line is not exceeded. The nominal rated load current is 238mA with a guaranteed minimum load current of 225mA.

This device provides power for one DALI line that may contain lighting control gear and control devices.

Suitable for DALI and DALI-2 systems.



Important Notes and Safety Information



WARNING – Electric shock may result in serious injury or death. Follow all warnings in this guide and on the product. Work in accordance with the latest electrical safety practices.

- The DALI Power Supply requires a mains supply connection and is mounted on DIN rail that **must** be installed horizontally.
- The installer must be suitably qualified and should work in accordance with standard safety procedures for mains-powered electrical equipment.
- DALI system wiring is only single insulated from mains. **Treat DALI wiring the same as mains wiring.**
- There are **no user serviceable parts** inside the power supply. Do not attempt to disassemble or operate the device with any covers removed.
- This DALI power supply is for **indoor use only**.
- Consult manufacturer instructions for ballasts, LED drivers and other DALI equipment that may be connected to the DALI lines.

Installation and Wiring

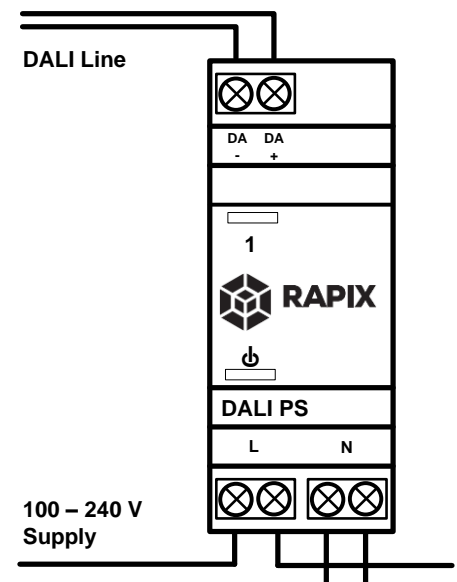
The DALI Power Supply unit is mounted on DIN rail which **must** be installed horizontally in a suitable switchboard enclosure. Multiple DALI power supplies, controllers or other devices can be mounted on the same DIN rail.

The mains terminals allow 3 x 1.5 mm² or 2 x 2.5 mm² (solid or stranded) wire per tunnel.

DALI line terminals allow 3 x 1.5 mm² or 2 x 2.5 mm² (solid or stranded) wire to be terminated.

We recommended connecting the DALI Power Supply to a dedicated control circuit rather than a lighting circuit.

For continued operation of lighting circuits that have back-up power in the event of mains failure, the DALI power supply should also be connected to the back-up power system (UPS and/or generator).



RAPIX Lighting Control System



This DALI power supply is 100% DALI compatible. It is recommended for any DALI or DALI-2 system, including the RAPIX Lighting Control System.

Operation and Indicators

The DALI Power Supply requires no configuration.

The unit has indicators for displaying the mains supply connection and DALI line status.

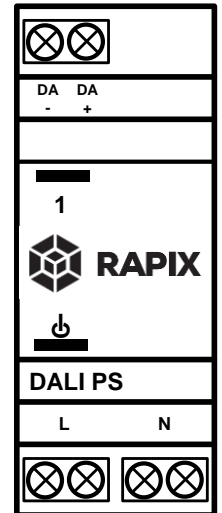
DALI Line Indicator

Indicator	Operation
Green – on	Normal state. Unit supplying 18 V dc (nominal) to the DALI line.
Green/Blue flashing	DALI communications occurring on the connected DALI line.
Green/Blue - on	Overload condition - too many DALI devices or a faulty device(s) on the DALI line.
Blue - on	Short circuit on the connected DALI line.
Off	DALI line power error. Check that ac mains supply is connected correctly.

DALI Line LED Indicator



Mains Supply LED Indicator



Mains Supply Indicator

Indicator	Operation
Green – on	Correct operation indicating mains supply is present.
Off	Check the mains supply is connected. If mains connected, the unit is faulty and should be replaced.

Specifications

Parameter	Specification
Input voltage	100 – 240 V ac
Input power	10 VA
Frequency	50/60 Hz
DALI line capacity	1
DALI line supply voltage	18 V dc (nominal)
DALI line rated current	225 mA (guaranteed) / 238 mA (nominal) / 250 mA (maximum)
Isolation	> 3.75 kV ac (DALI line/mains supply)
Start-up time	< 20 ms
Ambient operating temperature	0 to 50° C
Ambient storage temperature	-10 to 70° C
Humidity	0% to 95% RH non-condensing
DALI line terminals	Screwed – 3 x 1.5mm ² or 2 x 2.5mm ² solid/stranded
Mains supply terminals	Screwed – 3 x 1.5mm ² or 2 x 2.5mm ² solid/stranded per tunnel
Ingress protection	IP20
Materials	Enclosure/fascia – flame resistant polycarbonate DIN rail clip – ABS
Weight	104 grams
Dimensions – 2 DIN modules	92 x 37.5 x 62.2 (H x W x D in millimetres)
Approvals	

Power Surges

The DALI Power Supply should only be used on a mains supply within the range shown in the specification table.

External influences can cause induced voltages or surges on electrical circuits, which can damage electronic equipment. It is strongly recommended that the electrical installation is fitted with suitable over-voltage protection at the electrical switchboard.

Insulation Resistance Testing

Insulation Resistance testing is generally not required on DALI lines. In the event it is performed, the DALI line must be disconnected from the power supply to conduct the test, and then reconnected after.

Insulation Resistance testing on the mains supply circuit of the DALI power supply is not recommended. The internal circuitry of the power supply may cause an inaccurate or low reading.

Standards and Compliance

The product is designed to meet/exceed the following Australian and International standards:

EMC and Electrical Safety Frameworks and Standards

AS/NZS CISPR 15:2011

EN 61000-3-2:2009

EN 61000-3-3:2013

EN 61547:2009

AS/NZ 61347.2.2:2007

AS/NZ 61347.1:2002, EN 61347-1:2008+A1, A2

IEC 61347-2-13

DALI Standards and Compliance

IEC 62386-101, Ed 2 (DALI-2)

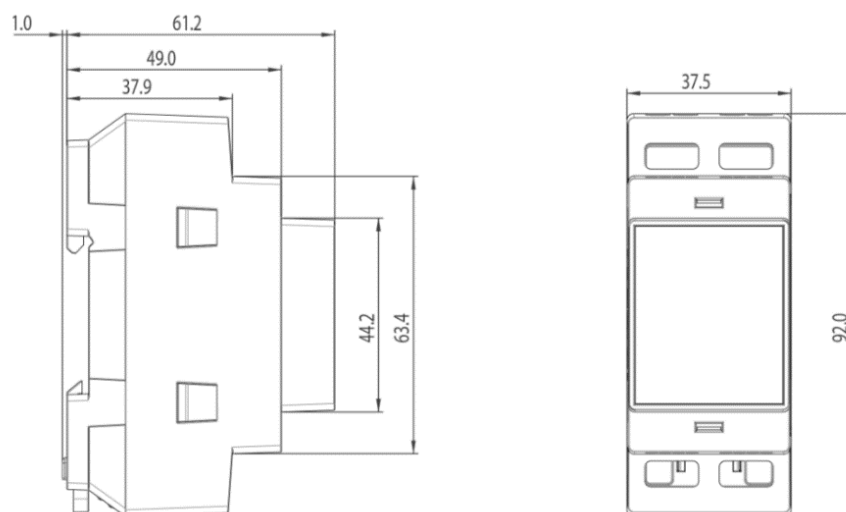
EC Council Directives

2014/35/EU Low Voltage

2014/30/EU Electromagnetic Compatibility (EMC)

2015/864 Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment

Dimensions



Warranty

This product has a TWO YEAR warranty against manufacturing defects. The warranty applies from the date of purchase.

Refer to ozuno.com for the full conditions for warranty and returns process. A summary of the process:

1. Contact the seller of the goods, or in their absence contact Ozuno to request a return goods authorisation.
2. When a return is authorised, the goods must be returned to Ozuno at the owners expense for technical evaluation.
3. The warranty claim will be evaluated by Ozuno and accepted if the goods are found to be faulty, or rejected if the fault was caused by conditions beyond the responsibility of Ozuno. Considerations of installation, removal, return, freight and testing are not the responsibility of Ozuno.

The Australian Consumer Law requires the inclusion of the following statement with this Warranty:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



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