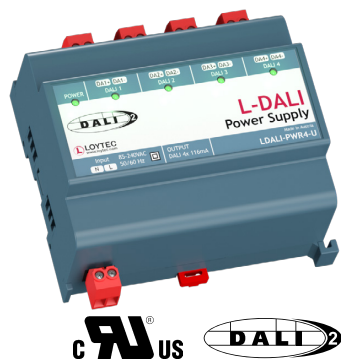


LDALI-PWR2-U, LDALI-PWR4-U

Datasheet #89023222



The DALI-2 power supplies LDALI-PWR2-U and LDALI-PWR4-U are used to power two or four DALI channels. Per channel, the power supplies provide a guaranteed supply current of 116 mA to power devices connected to the DALI channel.

In case the DALI devices connected to the channel consume more than the 116 mA, two DALI outputs of the power supplies can be used in parallel, resulting in a guaranteed supply current of 232 mA (maximum supply current of 250 mA).

Installation

The DALI channel is treated to be non-SELV (Safety Extra Low Voltage). Therefore the relevant installation regulations for low voltage apply. The cable of a DALI channel is either limited to a maximum length of 300 m using a minimum wire cross-section of 1.5 mm² (AWG15) or must ensure a maximal voltage drop of 2 V.

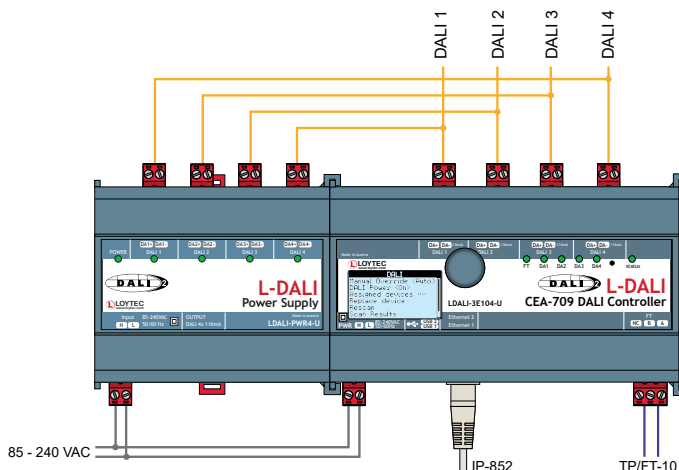
Wide Range Supply Voltage

The power supplies accept a wide range of supply voltage from 85-240 VAC, 50/60 Hz. They also feature a starting-current limitation.

DALI Power Outputs

The DALI power outputs provide 18 V (11 V – 20.5 V) and 116 mA guaranteed supply current. The power outputs are isolated from mains by reinforced insulation. The power outputs are short circuit proof and shut down if thermally overloaded. When a thermal overload occurs, the DALI control lamp switches off.

The LDALI-PWR2-U and LDALI-PWR4-U are DALI-2 certified.



Specifications

Dimensions (mm)	107 x 100 x 60 (L x W x H), DIM023
Installation	DIN rail mounting following DIN 43880, top hat rail EN 50022
Power supply	85-240 VAC, 50/60 Hz, current limited start up, max. 12 W
Operating conditions	0 °C to 40 °C, 10 – 90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals)
Interfaces	LDALI PWR2-U: 2 x 18 V DC (11 V – 20.5 V), each 116 mA guaranteed supply current***, 125 mA max. supply current, 7 ms start-up time, short-circuit-proof, thermal overheat protection, reinforced insulation (not SELV) to the power line LDALI PWR4-U: 4 x 18 V DC (11 V – 20.5 V), each 116 mA guaranteed supply current***, 125 mA max. supply current, 7 ms start-up time, short-circuit-proof, thermal overheat protection, reinforced insulation (not SELV) to the power line
Certificates	DALI-2

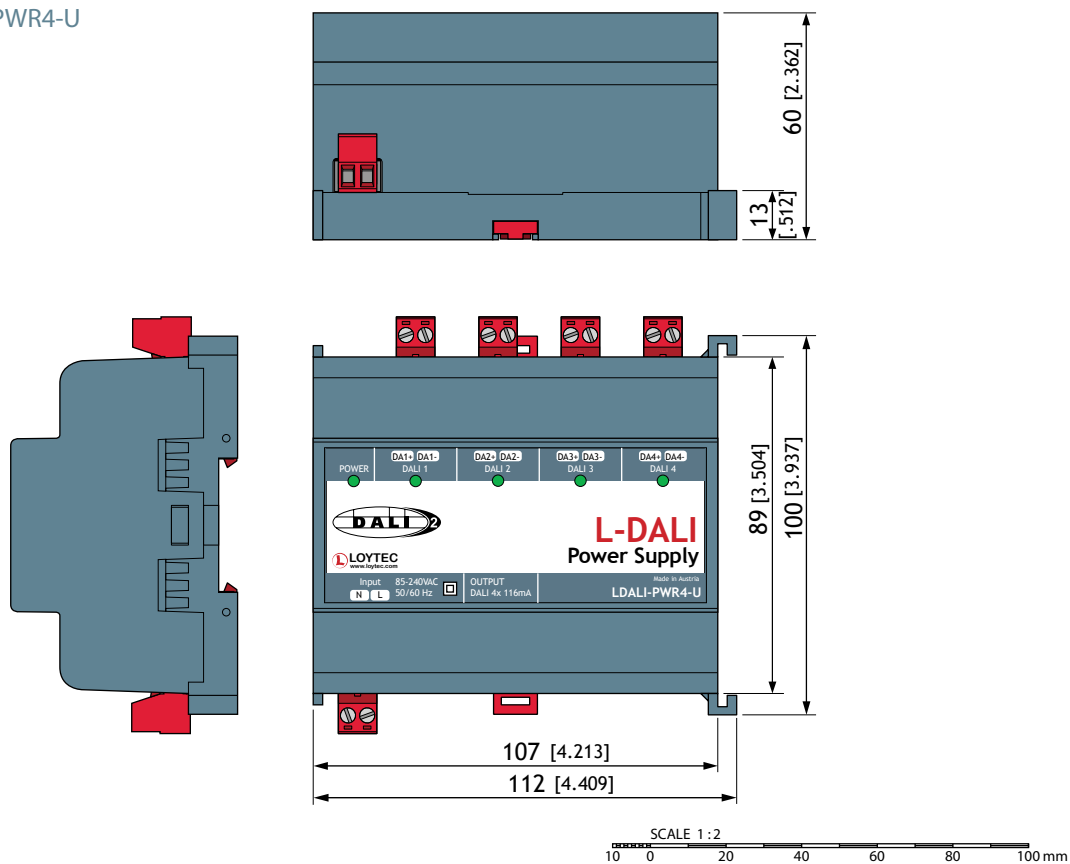
Order number Product description

LDALI-PWR2-U	DALI power supply unit for 2 DALI channels
LDALI-PWR4-U	DALI power supply unit for 4 DALI channels

***With high DALI traffic (e.g. during DALI-scan) increased current consumption may occur depending on the devices connected. Therefore, according to IEC62386-101 it is recommended to take an additional current of at least 20% for dynamic processes into account in system design.

Dimensions of the devices in mm and [inch]

DIM023 LDALI-PWR2-U
LDALI-PWR4-U



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from www.loytec.com.