

ATX LED

100% DC low voltage

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AL-DALI6-sbk Distribution panel for 600 watts LED power and DALI data

[Product Description - AL-Struct-DALI6](#)

This structured wiring panel provides fused power and DALI data to lights and switches. It can also be used in WiFi installations (see the 3 pin version). It uses the Leviton 47612-sbk for mounting

It has two power inputs, a DALI power supply, failover detection and power failover management. It is housed in a familiar case for structured wiring panels.

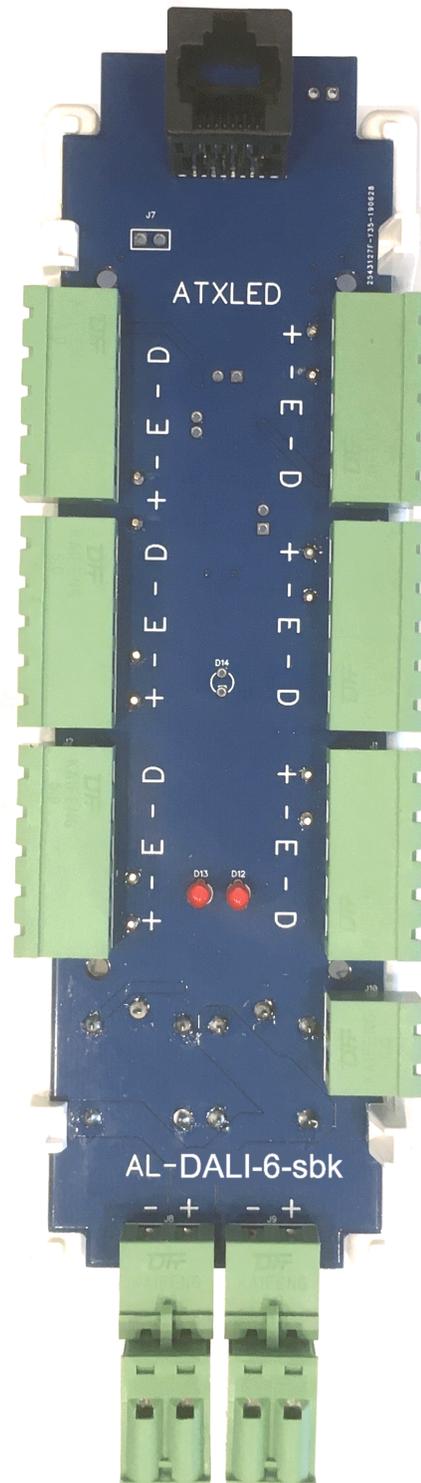
It uses quick connect 5 amp rated connectors, with each output limited to 2 amps (100 watts) per NEC 2017 Class 2 requirements. The connections are +48 (to 52 volts) for LED power, Earth Ground, and DALI signal.

Dual DC inputs are configured for load balancing and lossless Relay failover. Typically used with Meanwell power supplies from 150 to 600 watts, adjust the voltage output to 51 volts for highest efficiency.

It includes a DALI 16 volt 65 mA power supply for up to 25 DALI devices total (2 mA each). Three panels can be connected in parallel for 180 mA and 75 DALI devices. An RJ45 connector allows for simple interconnect. This is not Ethernet – just simple DALI data and power for either a AL-PWS-8D injector or a AL-DALI-PI controller

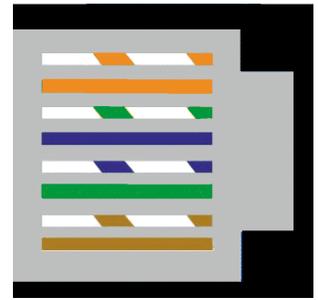
Failover Power

The Power Distribution has 2 inputs – apply a matched set of 48 (max 52v) power supplies to each input. Power from each input is sent to alternate power output terminals. Should either power supply fail, a relay will route the power to all 6 outputs. The matched power supplies can be either rated for full system power each, or using the Failover detection provided, they could be ½ of the rated power. The voltages do not need to match – but they should be spec'd with matching power output. Note: See our UPS/Solar module for intentionally mismatched power inputs



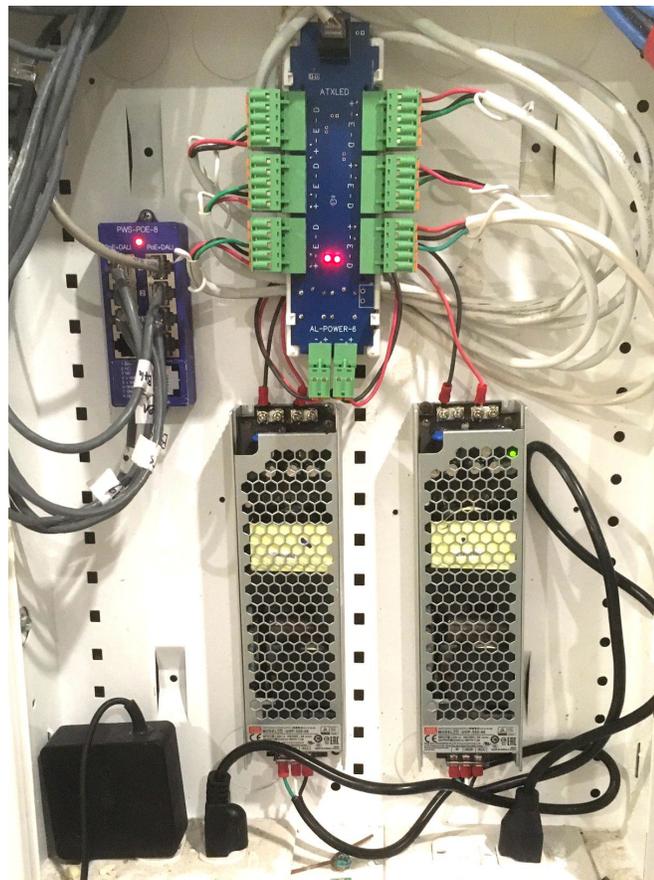
Specifications

Power source and load	Dual spring loaded connectors AWG 24 to AWG 16 Plug
Failover	Relay from 2 DC power inputs assures all outputs are live Normal operation – input A connects to 1,2,3, B to 4,5,6
Jumper J2	Connects the RJ45 pin 2 to ground
Jumper J7	Enables the on-board 60 mA DALI power supply
Input voltage range	44v to 52 volts (for Relay activation)
Dali Bus power	16v at 65 mA for 25 DALI devices
Internal Power consumption	100 milliwatts standby
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	170mm x 53mm x 20mm 190mm x 93mm x 56mm with connectors and standoff
Hot Swap	Yes – can unplug and connect power and/or data with power applied.
Fuse protection	PTC self resetting fuses with 2 Amps per each of 6 outputs
Earth Ground	Bus bar for earth grounding
Failover Detection	Cutover at less than 44 volts
Option	Ask about our UPS model with 3 rd input for Battery or Solar backup



RJ45

pin 1 – DALI+
pin 2 – DALI-
pin 4,5 = +48v
pin 7,8 = gnd



Example of 2x 350 watt installation