ATX LED AL-PSE-8D Distribution panel for 800 Watts

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Product Description - AL-PSE-8D

This structured wiring panel provides Class 2 power and DALI signals to 8 outputs. Ideal for up to 120 light fixtures and up to 48 Light switches.

It has two power inputs, with power failover management. It is housed in a case ideal for structured wiring panels. Two power inputs are relay routed to 8 outputs providing load balancing and failover.

It uses quick connect 10 amp rated input connectors. When used with Class 1 power supplies, the output current is limited per Class 2 to 100 watts (2 amps). Voltage is is 44 to 54 volts, and passes unchanged to the output. Earth connection is provided for static discharge management.

Ideally matched with 2 Meanwell 350 Watt power supplies, the AL-PSE-8D is a member of the ATX SML family for quick installation in Media Panels.

Failover Power

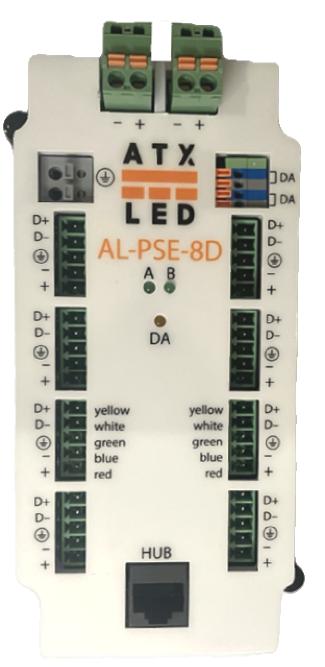
The Power Distribution has 2 inputs – apply a matched set of 48v (max 52v) power supplies to reach the power budget for the project. If a 500 watt project has 2 500 watt power supplies – then an outage will have no impact. The voltages are monitored by the RJ45 connector that links to the ATX LED Hub.

LED status display

There is 1 Green LED per power input, and one Orange for IEC 62486 DAbus power.

ATX LED Inc Valley View 512 377 6052

http://atx-led.com



sml Format

This device is a member of the ATX LED sml family for Structured Media Panels. This allows 8 devices in a 14x14 panel. Other devices include our 51v 96w power supply, PSE-4D distribution panel, Raspberry Pi hat, and DALI controlled PoE Switch.

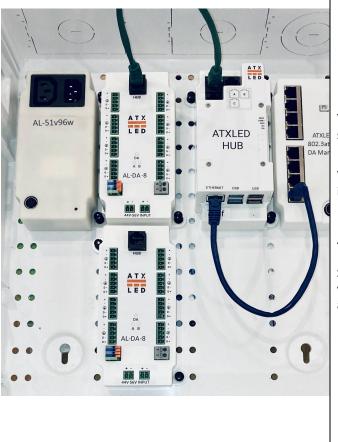
Specifications

5.0mm connectors (2) 2 pin (2024 model) 3.81mm connectors (2) 2 pin (2023 model) KF 3.81mm connectors (8) 5 pin CUI TBP02P1-500-02-BE (power in), earth ground CUI TBP02P1-381-05-BE (power and data out) Power from each input, and DALI data KF141V connector for additional DALI distribution panels. Relays from 2 DC power inputs assures all outputs are live 44v to 54 volts Each port has a self resetting 2.5 amp fuse 50 milliwatts standby Reverse protection and static protection 0°C ~ 50°C 70 mm x 147mm x 30mm plus 10mm interlocking tabs Yes - can unplug and connect input power live Connection for earth grounding Cutover at less than 44 volts Leviton 47615-NYL push pins Internal jumper option to ground

RJ45

Pin	А
1	DALI +
2	DALI – *
3	NC
4	+ Voltage A
5	+ Voltage B
6	Ground
7	Ground
8	Ground

* Jumper on back to connect to ground



SML Low Voltage modules

The ATX LED SML modules snap into the Leviton 47605 structured media boxes.

The 47605 is 14 inches wide and available with 14, 21, 28 or 42 inch height

A 21 inch 47605 can house 12 of the ATX SML devices.

Since the ATX LED system operates from the same general voltage as PoE, you can use left over PSE power to power WiFi access points and routers.

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Power source

Connector type

Failover

Power out and DALI

RJ45 to ATX LED Hub

DALI data expander

Input voltage range

Internal Power consumption

Jumper to ground RJ45 pin 2

Operating Temperature

Current Limit

Protection

Hot Swap

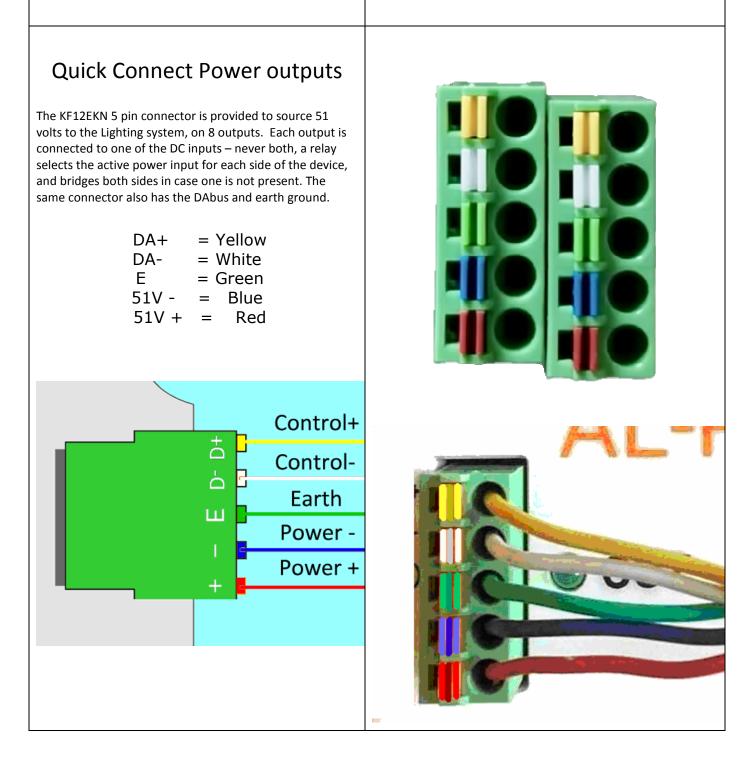
Earth Ground

Mounting Kit

Failover Detection

Size

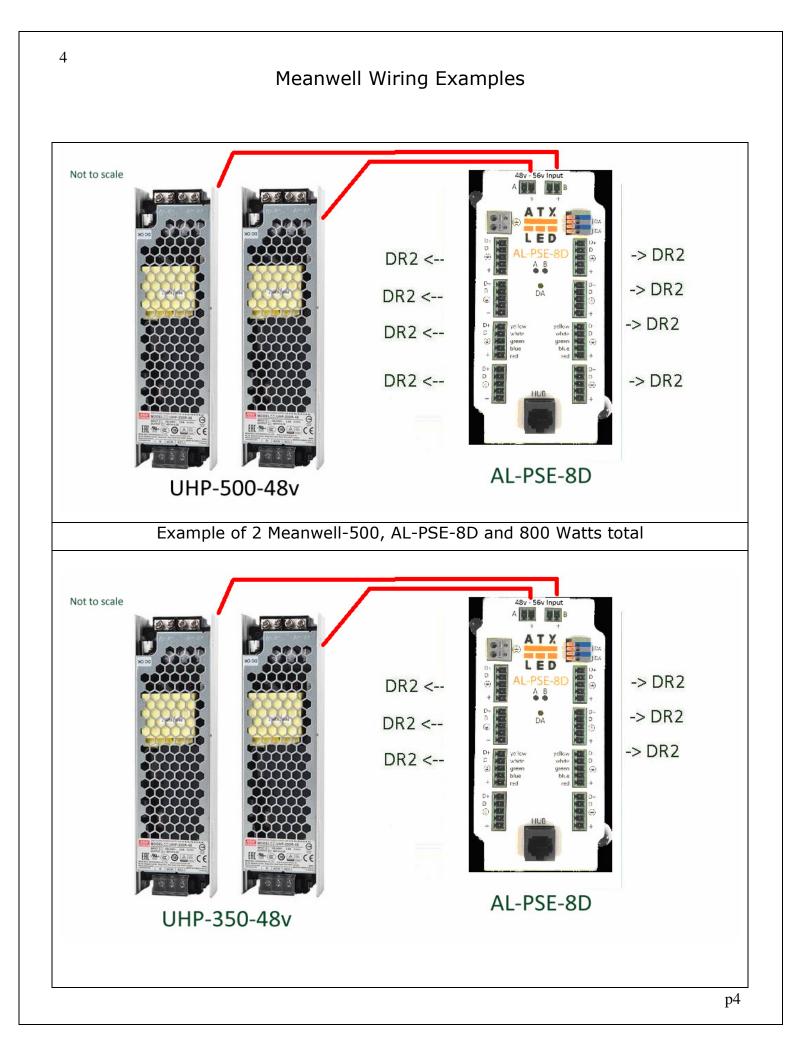
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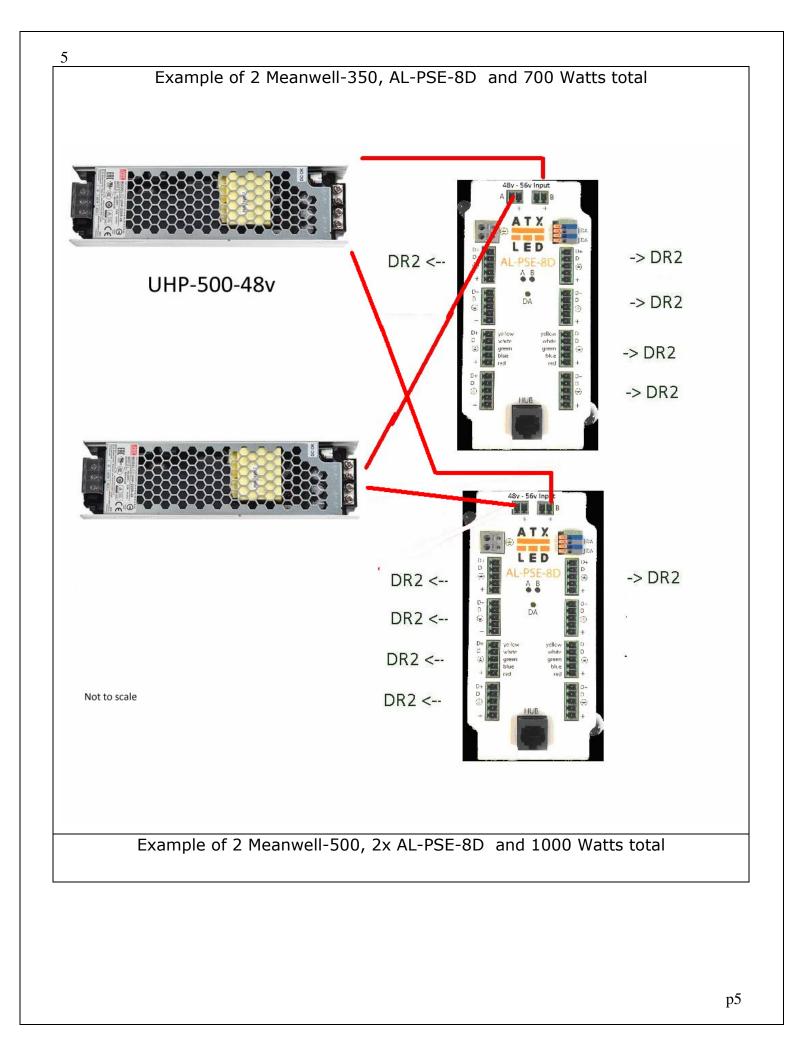


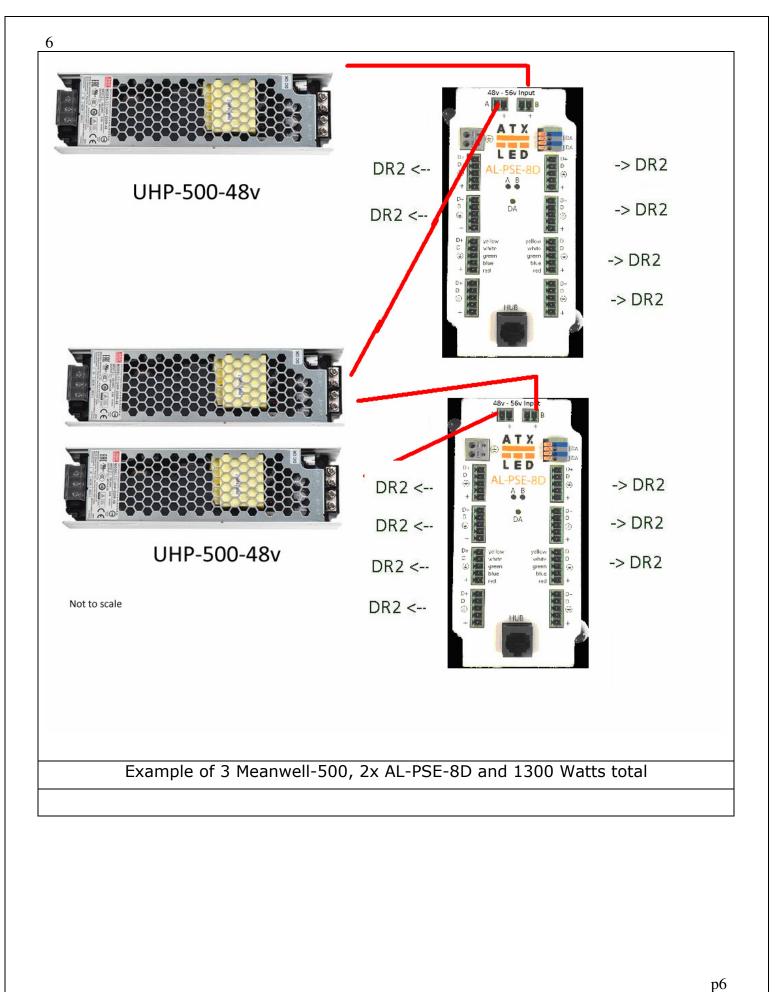
Earth Grounding

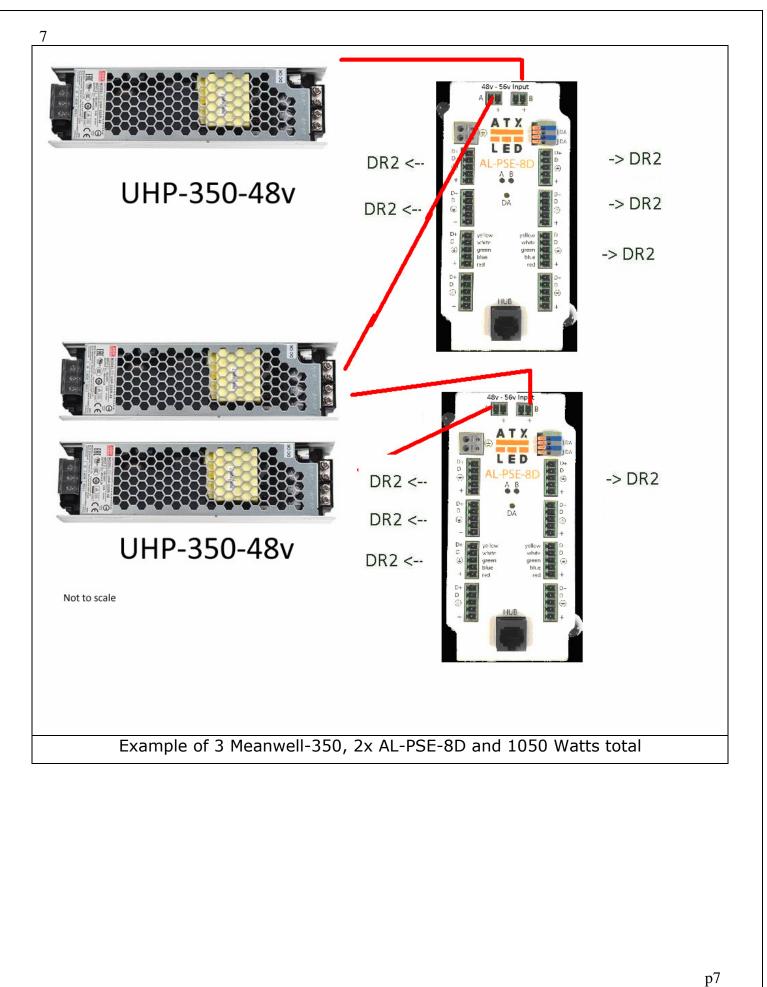
Earth grounding is recommended for static discharge of people using the wall switches. Connect the Gray earth ground connectors to the chassis ground

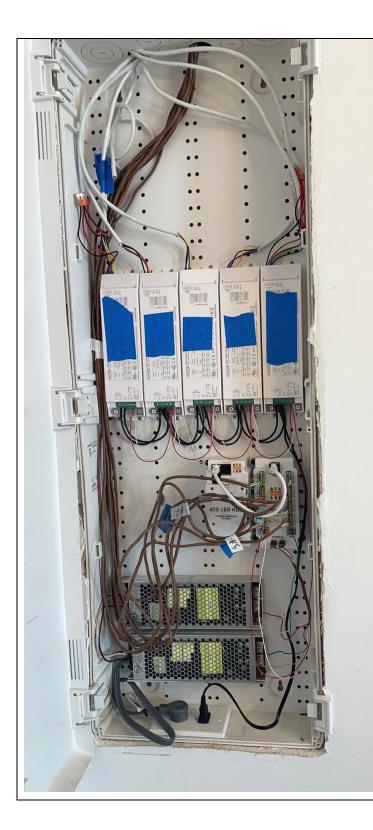
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Example of a high end system

(Cables not dressed yet)

5 Units of SRP-2309-75CCT

ATX LED Hub

AL-PSE-8D

2 Units UHP-500 @ 53 volts

Surge Protected power input