

ATX LED AL-PSE-4

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Distribution Panel for 4 x 96 Watts Class 2 Power plus Doorbell power

Product Description - AL-PSE-4

This structured wiring panel provides Class 2 power to 4 power outputs. Ideal for up to 60 light fixtures and up to 32 light switches.

No output can exceed the power supplied by any one input – input power is NOT consolidated, therefore regardless of the number of supplies attached, the output current per port remains Class 2 assuming that the input power supply is class 2 (100 watts) per NEC 2017 requirements.

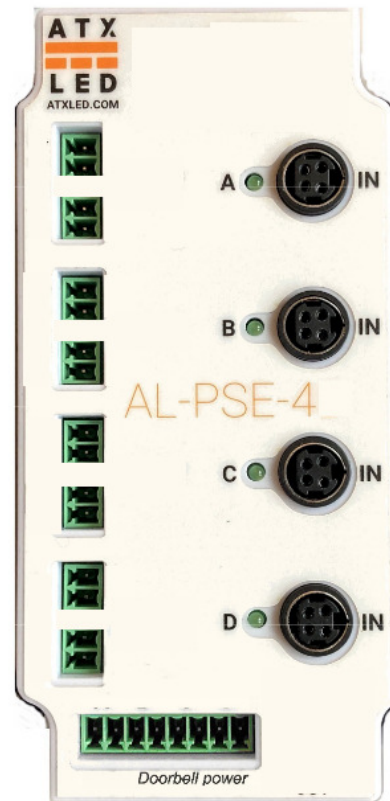
It has four power inputs. It is housed in a case ideal for structured wiring panels.

It uses quick connect 2 pin, 5 amp rated connectors. The inputs are the DIN 4 connectors. Voltage range is 24 to 56 volts..

Ideally matched with 4 pcs of the AL-PS-51v96w, the AL-PSE-4 is a member of the ATX SML family for quick installation in Media Panels.

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, AL-DA-8 distribution panel, Raspberry Pi hat, and DABus controlled PoE Switch.



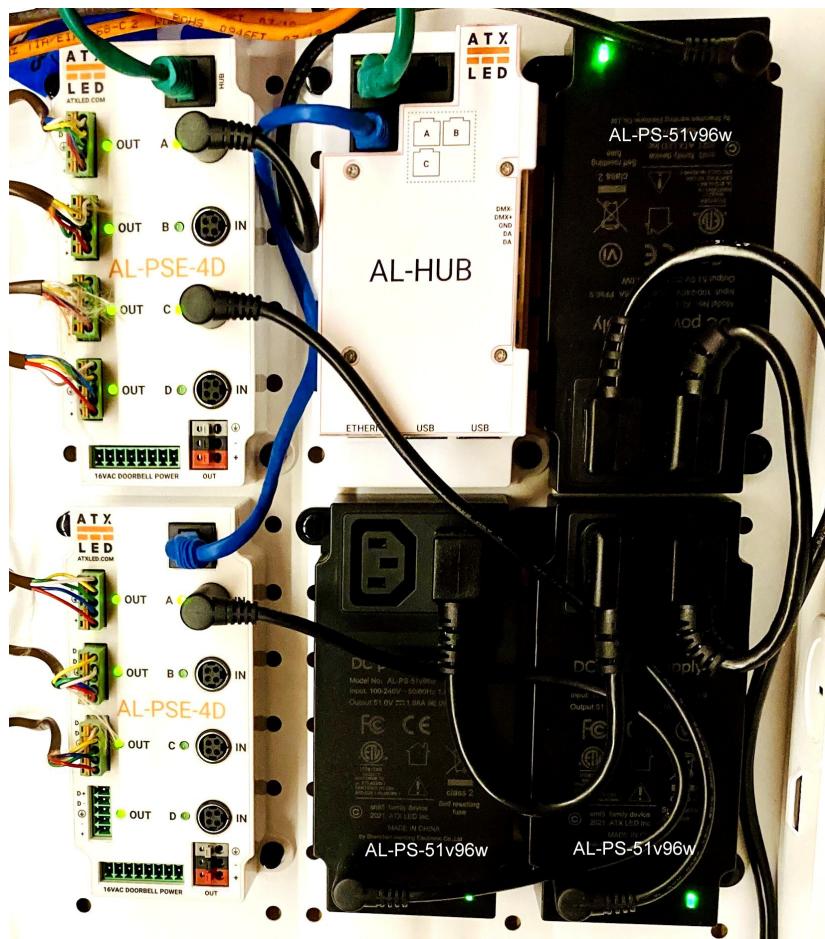
LED status display

There are 2 LEDs per channel. The input LED is the presence of voltage on inputs A thru D. The output (left) LED indicates available current to that output. With no load, it is fully bright. As the load reaches the Class 2 limit of 2 amps – the LED will be off.

The 4 input voltages are monitored by an external device like the ATX LED Hub using pins 4 and 5 of the RJ45 connector

Specifications

| | |
|-------------------------|--|
| Power source | DIN4 (4 individual) connectors for the AL-PS-51v96w |
| Output Connectors | 4 outputs, each with 2 positions, 2 wires each. Wago 714-105 or KF12EKN-3.81- 2P |
| Doorbell Camera Power | 16 VAC output for up to 4 Doorbell Cameras and chimes |
| Input voltage range | 44 to 56 volts - Green light 24 – auto switching - yellow light |
| Current Limit | This device relies on the Class 2 current limit from the power source. For example: the AL-PS-51v96w. Only one Class 2 power supply per channel is permitted to be connected |
| Internal Power | 25 milliwatts standby with all power inputs active |
| Protection | Reverse protection and static protection |
| Operating Temperature | 0°C ~ 50°C |
| Size | 70 mm x 147mm x 30mm plus 2x 10mm interleaving tabs on the 70mm side |
| Horizontal between tabs | 76.2mm |
| Vertical between tabs | 127mm |
| Hot Swap | Yes – can unplug and connect input power live |
| Earth Ground | Connection for earth grounding on DIN4 connectors |
| Mouting Kit | Leviton 47615-NYL push pins |
| DIN Rail | Din Rail adapters are available. |




Quick Connect Power outputs

The KF12EKN 2 pin connector is provided to source 51 volts to the Lighting system, on 4 outputs. Each output is connected to the corresponding DIN connector input.

Compatible input power:

AL-PS-51v96w Power Brick

The AL-PS-51v96w power supply was designed for use with the AL-PSE-4. It fits the SML standard case format.

| Min. DIN 4 Pin (female) | Pin Assignment | |
|---|----------------|--------|
| | PIN No. | Output |
|  | 1 | +Vo |
| | 2 | -Vo |
| | 3 | +Vo |
| | 4 | -Vo |

Class 2 Safety

The AL-PSE-4 passes the power from a UL Listed, Class 2 power supply, thru the device out to the loads. The Class 2 specifications are preserved thru this device. Hardware lockouts prevent multiple inputs from being combined into power for one output. Earth ground is passed from the power supply to the output connectors to wire to the wall switches.

Doorbell Camera Power

Power up to 4 Ring™ or similar Doorbells - The AL-PSE-4 provides 24 VDC power for doorbell operation. This makes the low voltage cabinet the center of the home automation system. This output is a 450 mA current limited output.

Ordering part numbers

| Model | UPC Code |
|-----------|----------|
| AL-PSE-4 | |
| AL-PSE-4D | |

