

ATX LED

100% DC low voltage

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AL-PSE6-sbk

Distribution panel for 600 Watts LED power

Product Description - AL-Struct-PSE6

This structured wiring panel provides fused power to lights and switches. It can also be used in simple or WiFi installations or mixed. It uses the Leviton 47612-sbk mounting hardware.

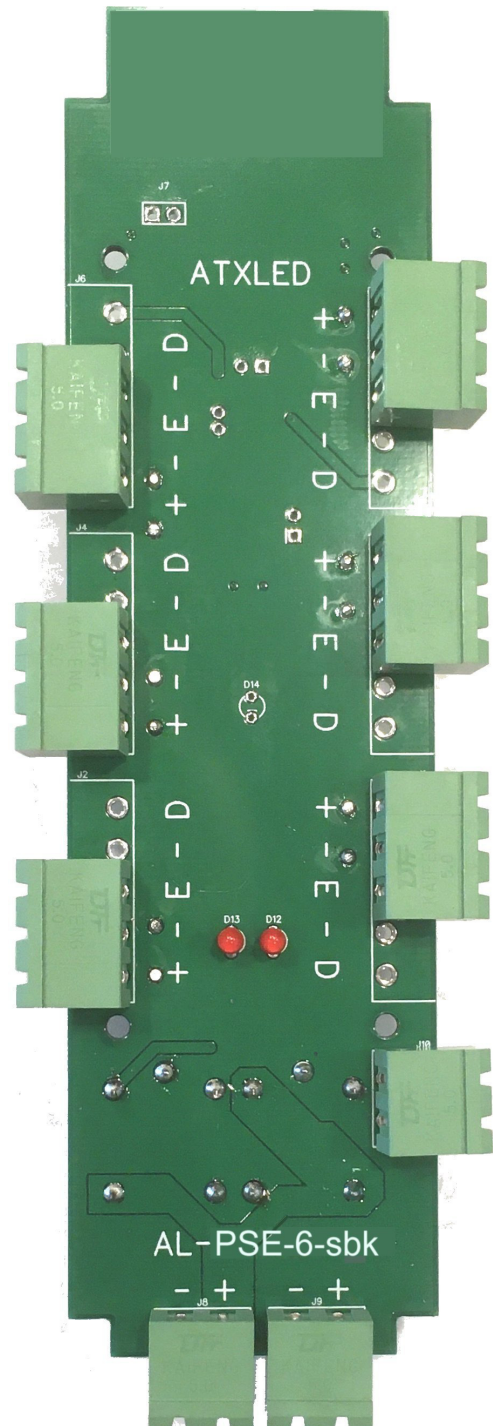
It has two power inputs, failover detection and power failover management. It is housed in a familiar case for structured wiring panels.

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

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.

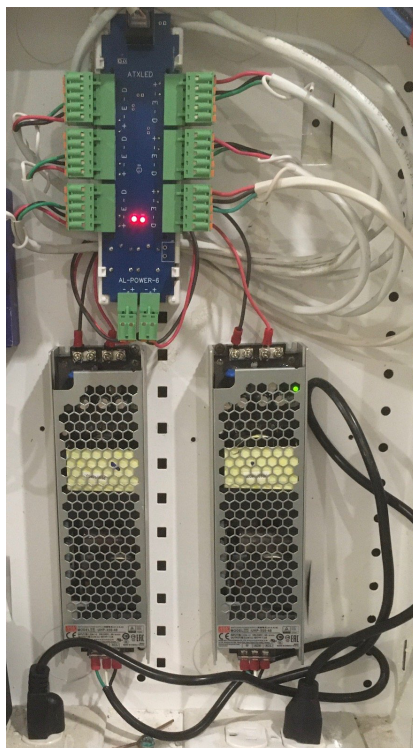
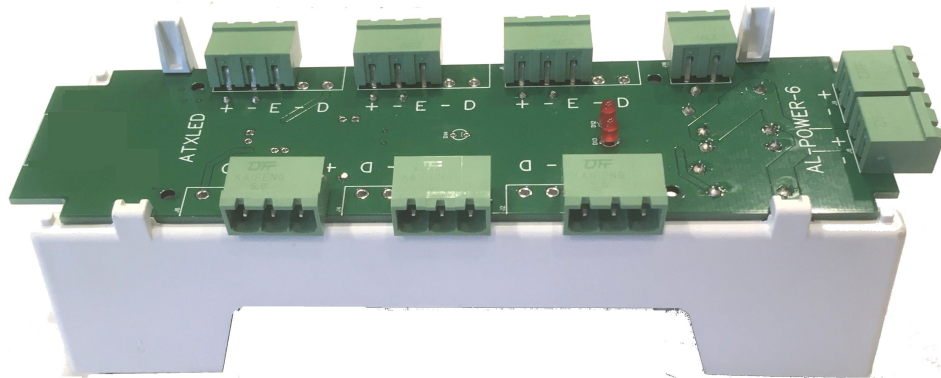
Failover Power

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
Connector type	Phoenix 1910351 and 1910364
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
Input voltage range	44v to 52 volts (for Relay activation)
Internal Power consumption	300 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
Mouting Kit	Leviton 47612-SBK



Example of 2x 350 watt installation