



AL-PS-51v96w

Structured Media IEC 62368-1
low voltage Power Supply

ideal for Lighting or PoE
96 watts @ 51 volts

ETL listed 5002217



[Product Description - AL-PS-51v96w power supply](#)

This power supply is designed for Class 2 applications, with ETL IEC 62368-1 listing, high power factor and cool operation. 8 power supplies fit into a standard 14 x 14 structured media panel using push pins and a 3 x 5 inch hole spacing. A vented cover is recommended.

As a member of the ATX LED sml® family, this device is used to power low voltage Class 2 loads, limited to 100 watts per NEC 2017 code. It can be combined into load balanced and failover solutions using other sml family devices, or used stand alone.

It has a C14 inlet and a C13 outlet allowing daisy chaining with limited 120v outlets in a structured media box.

Specifications

120vac connection	C14 and C13 male / female connector
DC Output connector	DIN 4 pin
Output voltage	51v +- 5%, over voltage protection
Output current	1.9 Amps max, over current protection
Power Factor	0.95 or greater
Input voltage range	100v to 250v , 50-60 Hz
Standby power consumption	DoE Class 6, ETL, FCC, CE listings
Conversion efficiency	2021 batch – 86% at full load 2022 model – 92% at full load
Protection	Inrush current
Operating Temperature	0°C ~ 50°C
Size	70 mm x 147mm x 30mm plus 2x 10mm tabs on the 70mm side
Push Pins	Leviton 47615-nyl
Dimming	None – see other products for dimming
FCC and interference	All outputs are RF filtered for minimal Interference
Horizontal between tabs	76.2 mm
Vertical between tabs	127 mm



Push Pin type 47615-NYL included

Ordering part numbers

Model	AC Cable	DC Cable	Function
AL-PS-51v96w-a1	Main	DIN4	
AL-PS-51v96w-b1	Jumper	DIN4	ATX LED Lighting with AL-PSE-4D
AL-PS-Cable Kit	4 types	3 types	
AL-PS-51v96w-a2	Main	2.1mm	PoE

DC Cable Options

Short DIN	DIN 4 to DIN 4	20 cm
Long DIN	DIN 4 to DIN 4	40 cm
DIN4 / 2.1mm	DIN 4 to 2.1x5.5mm	60 cm

Min. DIN 4 Pin

(female)

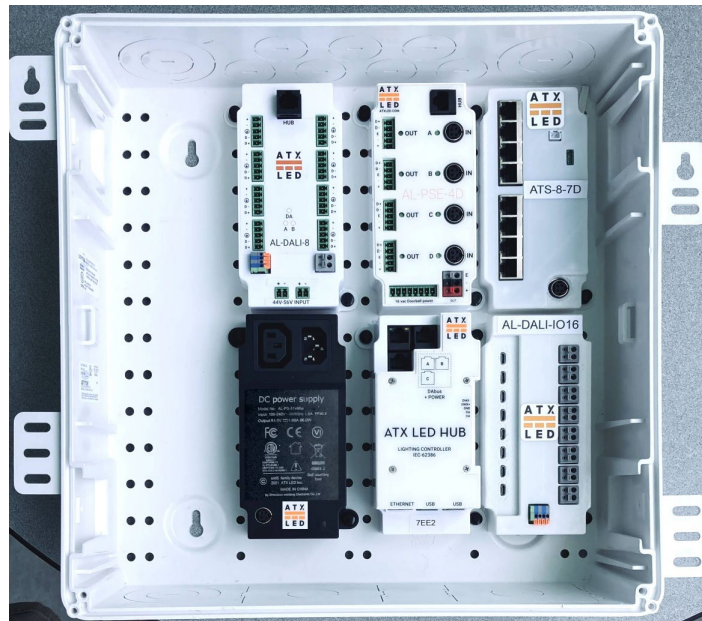


Pin Assignment

PIN No.	Output
1	+Vo
2	-Vo
3	+Vo
4	-Vo



2.1mm Adapter



AC Cable Options



AC Cable Options (all C13, C14 are Right Angle, All 5-15P and 5-15R are straight)

<p>Main Cable – to 120 vac outlet C13 to 5-15P</p>		<p>70 cm</p>
<p>Short Jumper – unit to unit C13 to C14</p>		<p>20 cm</p>
<p>Long Jumper – unit to unit C13 to C14</p>		<p>40 cm</p>
<p>Mains Out – for other devices C14 to 5-15R</p>		<p>23 cm</p>