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AL-PS-51v96w

Structured Media  
IEC/UL 62368-1  
low voltage Power Supply

ideal for Lighting or PoE  
96 watts @ 51 volts

ETL listed E5002217



### [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 47605-14 14 x 14 structured media panel using push pins and a 3 x 5 inch hole spacing. A vented cover is recommended. There are also 47605 models with 21, 28 and 42 inches.

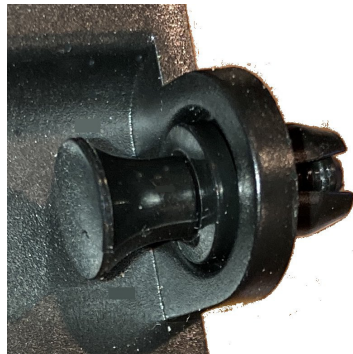
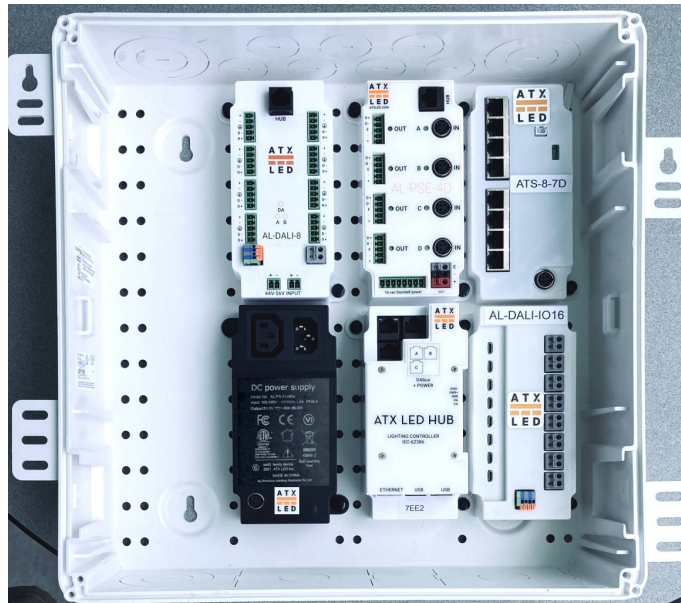
As a member of the ATX-LED sml® family, this device is used to power low voltage Class 2 loads, limited to 100 watts per NEC 2017 code. It can be combined into load balanced and failover solutions using other sml family devices, or used stand alone.

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

It should not be used in applications requiring more than 1.88 Amps @ 51v = 96 watts.

**Specifications**

120vac connection	C14 and C13 male / female connector
DC Output connector	DIN 4 pin
Output voltage	51v ± 2%, over voltage protection
Output current	1.9 Amps max, over current shutdown at 2.8 Amps
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	92% at full load
Inrush	Inrush current limited
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 - Plug and Play drop in

# DC Cable Options

Min. DIN 4 Pin

(female)



Pin Assignment

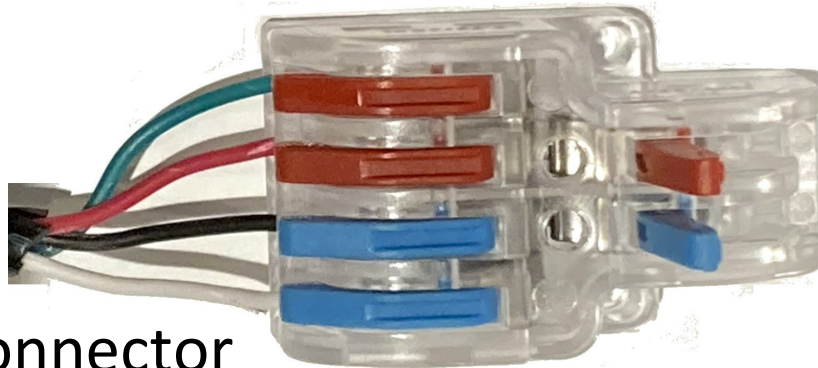
PIN No.	Output
1	+Vo
2	-Vo
3	+Vo
4	-Vo



DIN4 connector





2.1 x 5.5mm connector



DF42 Connector

# DC Cable Options

DC Cable Function	Model Name	Photo	length
<p>DIN4 both ends</p> <p>from PSU to PSE</p> <p>Fits</p> <p>AL-PSE-4 AL-PSE-2Din AL-GATS</p>	<p>DIN4-DIN4</p>		<p>30 cm</p>
<p>DIN4 to 2.1mm</p> <p>Fits</p> <p>Generic PoE Switch</p>	<p>DIN4-2.1</p>		<p>60 cm</p>
<p>DIN4 to DF42</p> <p>Allows the PSE to be Bypassed</p>	<p>DIN4-DF42</p>		<p>23 cm</p>

# AC Cable Options



Function	Model Name	Photo	length
Main In Cable to 120 vac outlet C13 is right angle	C13 to 5-15P  AL-PS-C13P		70 cm
Short Jumper brick to brick Both are Right Angle	C13 to C14  AL-PS-C13C14-20		25 cm
Long Jumper brick to brick Both are Right Angle	C13 to C14  AL-PS-C13C14-40		40 cm
Mains Out – for other devices	C14 to 5-15R  AL-PS-C14R		23 cm

## Ordering part numbers

Model	AC Cable	DC Cable	Used With
AL-PS-51v96w-a1	Main	DIN4	AL-GATS-10 PoE
AL-PS-51v96w-b1	Jumper	DIN4	AL-PSE-4D
AL-PS-51v96w-a2	Main	2.1mm	Generic PoE
AL-PS-51v96w-a3	Main	DF-42U	Stand Alone
AL-PS-51v96w-b3	Jumper	DF-42U	Multi PSU
AL-PS-51v96w-00	none	none	No cables
AL-PS-C13C14-20	X		25 cm
AL-PS-C13C14-40	X		40 cm
AL-PS-C13P	X		70 cm
AL-PS-C14R	X		25 cm
AL-PS-DINDIN		X	25 cm
AL-PS-DIN-2.1		X	60 cm
AL-PS-DIN-DF42		X	25 cm