http://atx-led.com



AL-PS-51v96w v2 AL-PS-48v96w v2 AL-PS-36v96w v2 AL-PS-24v96w v2

Strict Class 2

Structured Media UL 1310 low voltage Power Supply

ideal for Lighting or PoE 96 watts @ 51 volts legacy 48v or 24v options

V2 ETL listed E5032139



## 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<sup>®</sup> 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

NRTL DC Output connector

Output voltage

Power Factor0.95 or greatInput voltage range100v to 2500Input Wattage104 watts mStandby power consumptionDoE Class 6,Conversion efficiency92% at full loInrushInrush currerOperating Temperature0°C ~ 50°CSize70 mm x 14Push PinsLeviton 476DimmingNone – seeAll outputs

FCC and interference

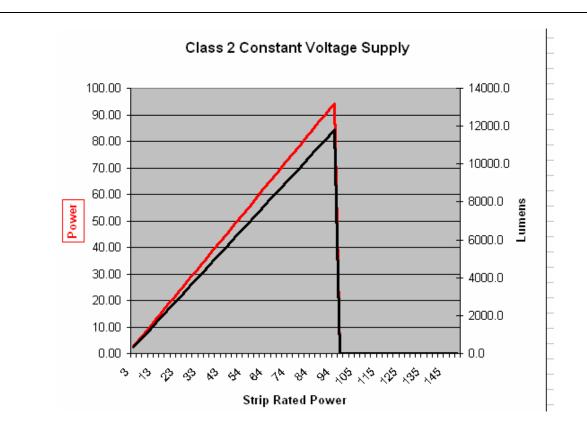
Size between tabs

C14 and C13 male / female connector Line, Neutral, Earth Ground ETL UL 1310, UL 62368-1, Class 2, LPS DIN 4 pin, +voltage, -voltage, earth ground  $51v \pm 2\%$ , over voltage protection 48v, 36v, 24v options 0.95 or greater 100v to 250v , 50-60 Hz 104 watts maximum at full load - 92% 92% at full load Inrush current limited 0°C ~ 50°C 70 mm x 147mm x 30mm plus 2x 10mm tabs on the 70mm side Leviton 47615-nyl None – see other products for dimming All outputs are RF filtered for minimal Interference 76.2 mm x 127 mm



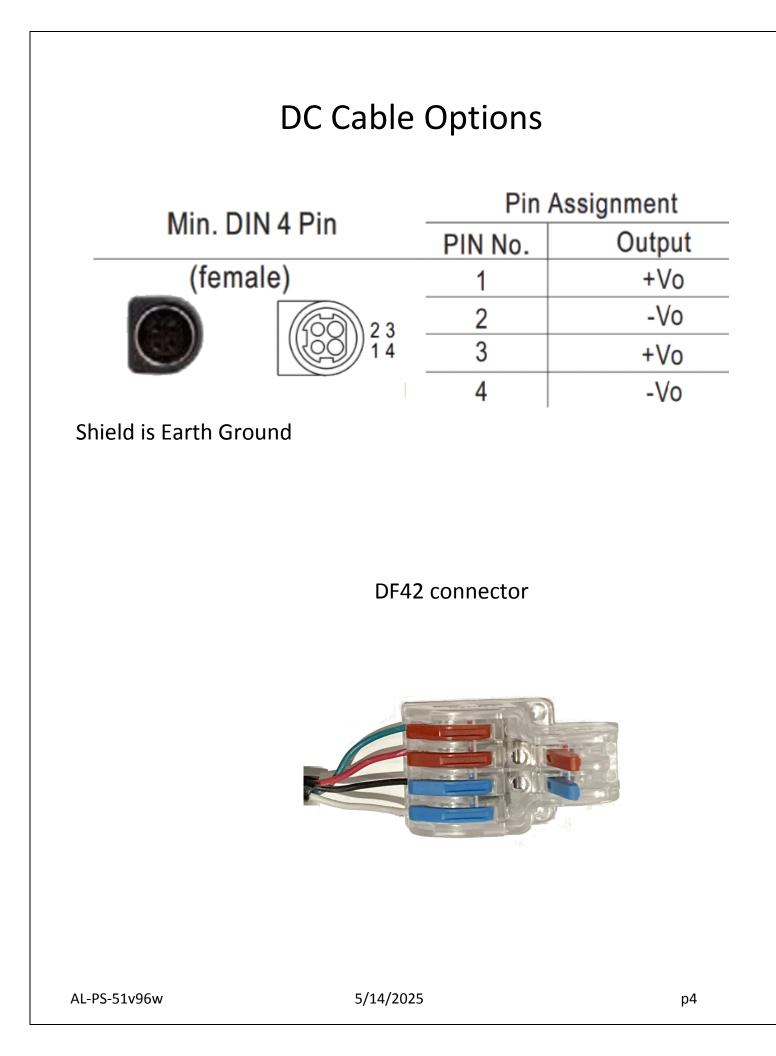






When overloaded by a LED strip with excessive length, a Constant Voltage supply shuts down

The AL-PS-51v96w V1 and V2 are Constant Voltage, the output will shut down to 0v



DC Cable Function	Model Name	Photo	Specs
			30 cm
DIN4 both ends	DIN4–DIN4		AWG20
from PSU to PSE			5 wires
			+,+
Fits			-, -
AL-PSE-4			Earth
AL-PSE-2Din AL-GATS			2x DIN4
DIN4 to 2.1mm	DIN4-2.1		60 cm
			AWG20
Fits		K NJ	4 wires
Generic PoE Switch			+, +
			-, -
			1x DIN4
			1x 2.1mm
			23 cm
DIN4 to DF42	DIN4–DF42		AWG20
Allows the			5 wires
PSE to be			+,+
Bypassed		7	-,-
			Earth
Wago earth not shown in			1x DIN4
Photo			1x DF42 1x Wago

## **AC Cable Options**



Function	Model Name	Photo	Specs
Main In Cable to 120 vac outlet C13 is right angle	C13 to 5-15P AL-PS-C13P		70 cm 3x awg18
Short Jumper brick to brick Both are Right Angle Long Jumper brick to brick Both are Right Angle	C13 to C14 AL-PS-C13C14-20 C13 to C14 AL-PS-C13C14-40		25 cm 3x awg18 40 cm 3x awg18
Mains Out – for other devices	C14 to 5-15R AL-PS-C14R		23 cm 3x awg18

## Ordering part numbers

Model	Peak Current	AC Cable	DC Cable	Used With
AL-PS-51v96w-a1	1.9A	Main	DIN4	AL-GATS-10 PoE
AL-PS-51v96w-b1	1.9A	Jumper	DIN4	AL-PSE-4D
AL-PS-51v96w-a2	1.9A	Main	2.1mm	Generic PoE
AL-PS-51v96w-a3	1.9A	Main	DF-42U	Stand Alone
AL-PS-51v96w-b3	1.9A	Jumper	DF-42U	Multi PSU
AL-PS-51v96w-00	1.9A	none	none	No cables
AL-PS-48v96w-a3	2A	Main	DF-42U	48v
AL-PS-36v96w-a3	2.3A	Main	DF-42U	Landscape
AL-PS-24v96w-a3	4 <b>A</b>	Main	DF-42U	24v
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