# Power Supplies

Specifications Guide
ACV-ACVN Series



A Allanson

# **LED Power Supplies**

# **Product Description**

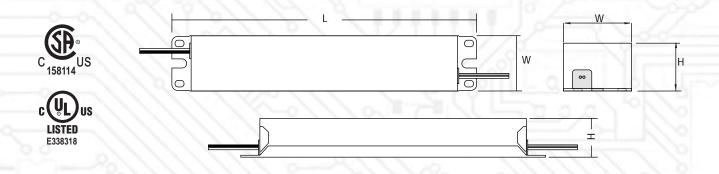
Allanson's ACVN and ACV series of fixed output voltage LED power supply comes with affordable and reliable features. Compatible with signage from any manufacturer. 12V major output voltage with 1,2, or 3 multi-channel selection for different lumen application. ACVN and ACV series meets North American safety certifications, and compliant with FCC Immunity/Emissions/Harmonic requirements. The products are designed and rigorously tested to work in various outdoor and indoor signage LED lighting conditions.

### **Product Features**

- Constant voltage design
- Universal input voltage from 120-277 Vac
- Multi-channel output and independent operating
- Class 2 output
- Dry & damp location
- Operating temperature range -40°C to +55°C

# **Specifications Chart**

Catalogue	Input	Input	Output	Output	Output	Housing (inches)			Power	D. 11
Number	Voltage	Current Amps	Volts DC	Current	Watts	L	w	н	Factor	Rating
ACVN125-120-277V	120-277	1.20A-0.70A	12	5.0	60	5.50	1.70	1.18	NPF	Dry & Damp
ACV125-120-277V	120-277	0.59A-0.26A	12	5.0	60	6.50	1.70	1.18	HPF	Dry & Damp
ACV2125-120-277V	120-277	1.15A-0.50A	12	2 x 5.0	120	11.75	1.70	1.18	HPF	Dry & Damp
ACV3125-120-277V	120-277	1.70A-0.75A	12	3 x 5.0	180	16.70	1.70	1.18	HPF	Dry & Damp



## Wire Size Recommendation

Recommended wire size from LED Module to Power Supply

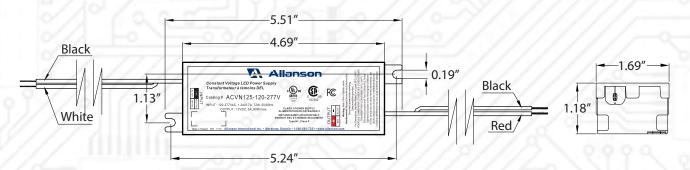
Distance to Power Supply	Stranded Copper Wire Gauge	Expected Voltage Drop		
13 Feet	16 AWG	5%		
20 Feet	14 AWG	5%		
30 Feet	12 AWG	5%		



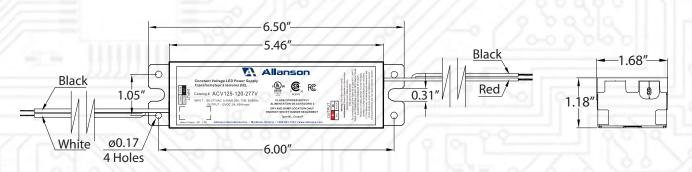
# **Product Dimensions**

All dimensions are in inches. Drawings are not to scale.

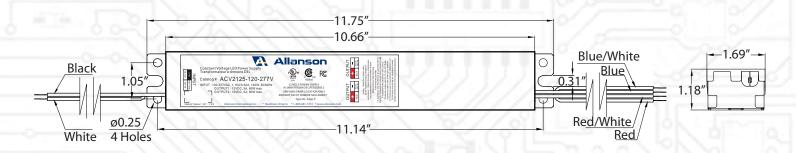
#### ACVN125-120-277V



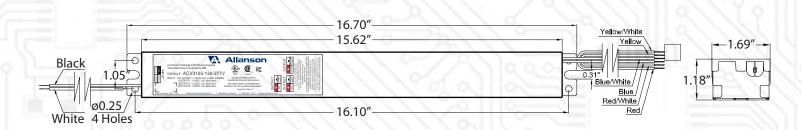
#### ACV125-120-277V



#### ACV2125-120-277V



#### ACV3125-120-277V





# Installation Instructions

Scan the QR Codes to access electronic .pdf files





Scan



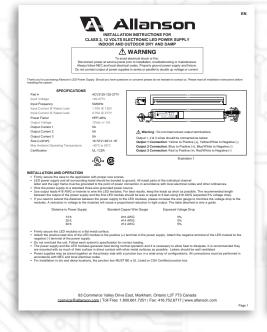
## ACV2125-120-277V



Scan



# ACV3125-120-277V



Scan





# **Loading Recommendation**Maximum LED Modules Per Power Supply

Part Number	LED Power Consumption (Watts)	ACVN125-120-277V ACV125-120-277V	ACV2125-120-277V	ACV3125-120-277V	
		White Module	S		
S03W2CW B M	0.30	0.30 180 150 +		150 + 150 + 150	
S04W1CW B M	0.36	150	142 + 142	142 + 142 + 142	
S05W2CW B	0.50	108	108 + 108	108 + 108 + 108	
S07W2CW B	0.75	72	72 + 72	72 + 72 + 72	
S07W2CW BLP	0.73	72	72+72	72 + 72 + 72	
S07W2WW BLP	0.73	72	72+72	72 + 72 + 72	
S07W2TW B	0.73	72	72+72	72 + 72 + 72	
S07W2WW B	0.75	72	72+72	72 + 72 + 72	
S1W2CW B	1.10	50	50 + 50	50 + 50 + 50	
S1W2NW B	1.10	50	50 + 50	50 + 50 + 50	
S1W2TW B	1.10	50	50 + 50	50 + 50 + 50	
V07W2TW B	0.75	72	72 + 72	72 + 72 + 72	
		Color Module	S		
S04W1RD B M*	0.36	142	142+142	142+142+142	
S05W2BL B*	0.50	108	108+108	108+108+108	
S05W2OR B*	0.50	108	108+108	108+108+108	
S05W2RD B*	0.50	108	108+108	108+108+108	
S1W2GR B*	1.00	54	50+50	50+50+50	
S1W2OR B*	1.00	54	50+50	50+50+50	
S1W2RD B*	1.00	54	50+50	50+50+50	
		RGB Module	5		
ACLW-RGB3 40	0.72	80	80 + 80	80 + 80 + 80	
ACLW-RGB AD 2	0.72	80	80 + 80	80 + 80 + 80	
	RGB Sky	Line Flexible Border Tubing	g (RGB Color Changing)		
31-XXXRGB-12V Q AB**	3.5W/ft (11.5W/m)	16' 4" (5m)	16' 4" (5m) + 16' 4" (5m)	16' 4" (5m) + 16' 4" (5m) + 16' 4"	



<sup>\*</sup>RD= Red, BL=Blue, GR=Green, OR=Orange
\*\*XXX in part number for RGB SkyLine Flexible Border Tubing denotes length in inches. Q denotes jacket color, A denotes power lead, and B denotes end cap type. Please refer to product specifications for more information.

# **Loading Recommendation**Maximum Retrofit Lamps Per Power Supply

Part Number	LED Power Consumption (Watts)	ACVN125-120-277V ACV125-120-277V	ACV2125-120-277V	ACV3125-120-277V			
LEDrofit (Retrofit Fluorescent Replacement)							
Single Sided LEDrofit							
ALDF-18CW-SS	3.50	15	15 + 15	15 + 15 + 15			
ALDF-24CW-SS	5.90	9	9+9	9+9+9			
ALDF-30CW-SS	7.10	8	8+8	8+8+8			
ALDF-36CW-SS	9.30	6	6+6	6+6+6			
ALDF-42CW-SS	10.50	5	5+5	5 + 5 + 5			
ALDF-48CW-SS	12.70	4	4 + 4	4 + 4 + 4			
ALDF-60CW-SS	16.00	3	3+3	3+3+3			
ALDF-64CW-SS	16.70	3	3+3	3+3+3			
ALDF-72CW-SS	18.80	3	3+3	3+3+3			
ALDF-84CW-SS	21.60	2	2+2	2 + 2 + 2			
ALDF-96CW-SS	23.60	2	2+2	2 + 2 + 2			
ALDF-108CW-SS	26.30	2	2+2	2 + 2 + 2			
ALDF-117CW-SS	27.40	2	2+2	2 + 2 + 2			
ALDF-120CW-SS	29.50	2	2+2	2 + 2 + 2			
		Double Sided LED	rofit				
ALDF-18CW-DS	7.00	7	7 + 7	7 + 7 + 7			
ALDF-24CW-DS	11.70	4	4+4	4+4+4			
ALDF-30CW-DS	13.90	4	4+4	4+4+4			
ALDF-36CW-DS	18.10	3	3+3	3+3+3			
ALDF-42CW-DS	20.40	2.5	2.5 + 2.5	2.5 + 2.5 + 2.5			
ALDF-48CW-DS	24.60	2	2 + 2	2+2+2			
ALDF-60CW-DS	30.70	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5			
ALDF-64CW-DS	31.90	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5			
ALDF-72CW-DS	36.00	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5			
ALDF-84CW-DS	41.00	1	1+1	1 + 1 + 1			
ALDF-96CW-DS	45.50	1	1+1	1 + 1 + 1			
ALDF-108CW-DS	49.10	1	1+1	1 + 1 + 1			
ALDF-117CW-DS	51.00	1	1+1	1 + 1 + 1			
ALDF-120CW-DS	55.80	1	1+1	1+1+1			

#### Notes:

- 0.5 represents 1 pair of wires for any double sided LEDrofit. Charts above represent loading recommendation at 90%.



