



#### Features and Benefits:

- Constant DC Voltage Output
- Active Power Factor Correction (0.99 Typical)
- Wide AC input voltage range 100-277V 50/60Hz
- Surge, over-current, over-voltage, over-temperature and short-circuit protections
- IP67 rated, for use in dry and damp locations
- Meets UL8750 & EN61347 Safety Standards
- Compliant with FCC Title 47 CFR Part 15 Non-Consumer (Class A) for EMI/RFI (conducted and radiated) at full load
- 5 Year Limited Warranty



12V DC



5 YEAR WARRANTY

**UL** **IP67** **CE** **SELV** **RoHS**

#### PRODUCT INFORMATION

<b>Part Number</b>	<b>PS12-220W-100-277V</b>
<b>Rated Input Voltage</b>	100 -277V AC
<b>Rated Input Frequency</b>	50/60 Hz
<b>AC Input Current</b>	Nom. 1.83 A @ 120V AC Nom. 0.79 A @ 277V AC
<b>Rated DC Output Voltage <sup>1</sup></b>	12 V DC
<b>Max. DC Output Power</b>	220W DC
<b>Max. DC Output Current</b>	18.33A DC
<b>Power Efficiency</b>	91.5% @ 220V AC, 100% load
<b>Typical Power Factor</b>	0.99 @ 100V AC 0.93 @ 220V AC
<b>Max. Inrush Current <sup>2</sup></b>	50A
<b>IP Rating</b>	IP67
<b>Operating Ambient Temp.</b>	-31° — +140° F (-35° — +60° C)
<b>Lifetime</b>	50,000 hours @ 60°C case temperature, 80% load, 220VAC
<b>Dimensions (L x W x H)</b>	9.88" x 3.46" x 1.30" 251 mm x 88 mm x 33 mm
<b>Net Weight</b>	2.86 lb   1.30 kg

<sup>1</sup> Tolerance ± 0.6V

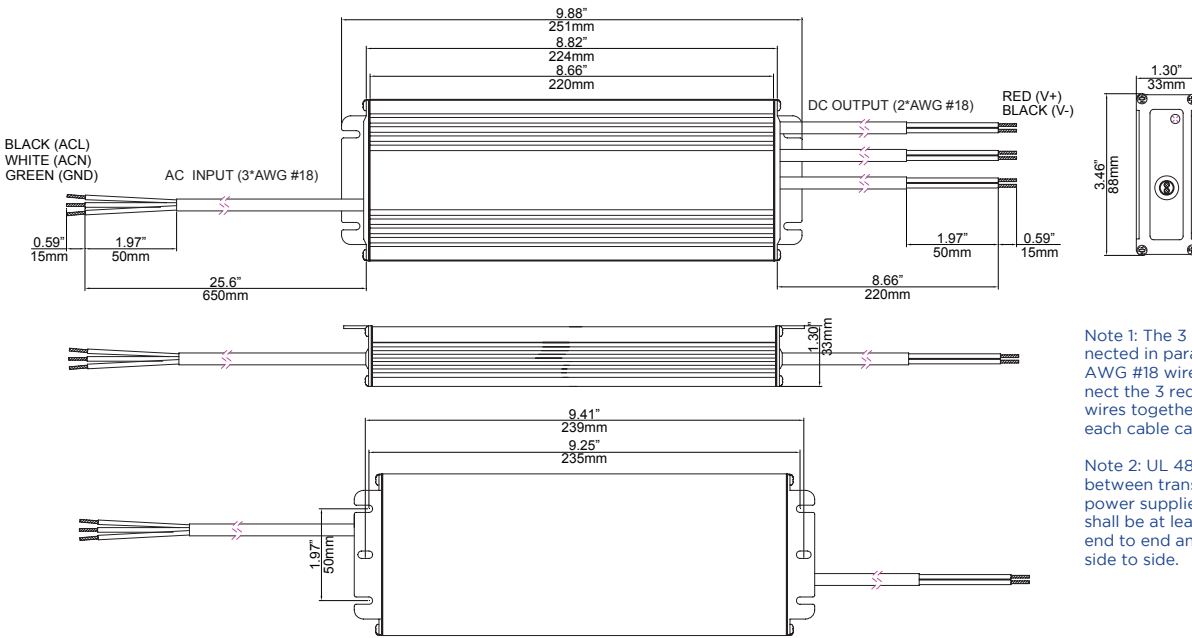
<sup>2</sup> Measured at 230V AC input and 25°C cold start

#### STANDARD COMPLIANCE

Safety	Safety Standards
<b>UL / cUL</b>	<b>CE</b>
<b>Country/Region</b>	UL 8750, UL 1310, UL 879
<b>USA &amp; Canada</b>	<b>EU</b>
	CSA-C22.2 No.207, CAN/CSA-C22.2 No.0, CSA-C22.2 107.1 CSA-C22.2 No.250.0, CSA-C22.2 No.250.13, CAN/CSA-C22.2 No. 60950-1
EMI Standards	
<b>EN 55015</b>	Conducted emission Test & Radiated emission Test with 6 dB margin
<b>EN 61000-3-2</b>	Harmonic current emissions: Class C
<b>EN 61000-3-3</b>	Voltage fluctuations & flicker
<b>EN 61000-4-2</b>	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
<b>EN 61000-4-3</b>	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
<b>EN 61000-4-4</b>	Electrical Fast Transient / Burst (Level 3 2KV/5K Hz)
<b>EN 61000-4-5</b>	Surge Immunity Test: AC Power Line (L to N 2 kV, L to GND4 kV)
<b>EN 61000-4-6</b>	Conducted Radio Frequency Disturbances Test-CS
<b>EN 61000-4-8</b>	Power Frequency Magnetic Field Test
<b>EN 61000-4-11</b>	Immunity against mains dips/ mains interruptions
<b>EN 61547</b>	Electromagnetic Immunity Requirements Applies to Lighting Equipment



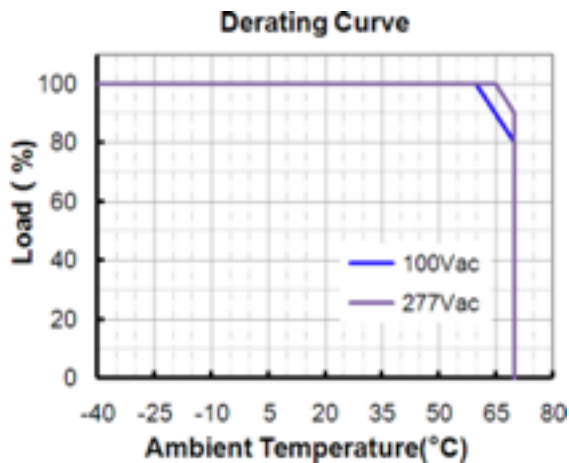
**DIMENSIONS**



Note 1: The 3 DC output cables are connected in parallel internally because one AWG #18 wire can only carry 10A. Connect the 3 red wires together in application, or ensure each cable carries same current.

Note 2: UL 48 Standard requires spacings between transformers, ballasts, neon power supplies and LED power supplies shall be at least 1 inch (25.4 mm) from end to end and 4 inches (101.6 mm) from side to side.

**DERATING CURVE**



**WIRING GAUGE CHART**

Gauge (AWG)	Metric (mm <sup>2</sup> )	Maximum Distance*	
		Feet	Meters
26	0.13	3	0.9
24	0.21	4	1.2
22	0.33	7	2.1
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	13.7
12	3.31	71	21.6
10	5.26	120	36.6

\*Distance from power supply to 100% load

**SHIPPING INFORMATION**

Module Type	Specs	Packaging Quantity		Case Weight	SKU Dimensions			Case Dimensions			
		Per SKU	Per Case		W	D	H	W	D	H	
PS12-220W-100-277V	# of Units	1	12	39.9 lb 18.1 kg	9.88	3.46	1.28	19.7	14.6	13.2	inch
					251	88	32.5	500	370	335	mm



1. The maximum case temperature Tc shall not exceed 194°F (90°C) when used in end product.
2. These products are intended to be connected to a max. 20 A branch circuit.
3. These products are intended for use in dry and damp locations.