

Class 1 LED Power Supply PS12-220W-100-277V



Features and Benefits

- Wide input AC voltage range 100-277V 50/60Hz
- Constant DC Voltage Output
- Active Power Factor Correction (0.99 Typical)
- Operating temperature -35°C to +60°C (-31°F to +140°F)
- Surge, over-voltage, over-current, over-temperature and short-circuit protections
- IP67 Rating - UL certified for use in dry, damp and wet 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



Ordering Information (subject to change without notice)

Ordering Code	Input Voltage (VAC)	Output Voltage (VDC) ¹	Max. Output Current (A)	Max. Output Power (W)	Typical Efficiency ²	Typical Power Factor		Max Inrush Current ³ (A)	Average Rated Life ⁴ (hrs)	IP Rating	Net Weight (lb)/(kg)
						100VAC	220VAC				
PS12-220W-100-277V	100-277 VAC	12	18.33	220	91.5%	0.99	0.93	50	50,000 hrs	IP67	2.86/1.30

- Notes:**
- (1) 1. Tolerance $\pm 0.6V$
 - (2) Measured at full load and 220V AC input.
 - (3) Measured at 230V AC input and 25°C cold start
 - (4) Measured at 110V AC input, 80% load and 45°C ambient temperature; Case temperature shall not exceed 90°C in application.

LED Module to Power Supply Wire Size

Gauge (AWG)	Metric (mm ²)	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 load at full capacity

Ordering Guide

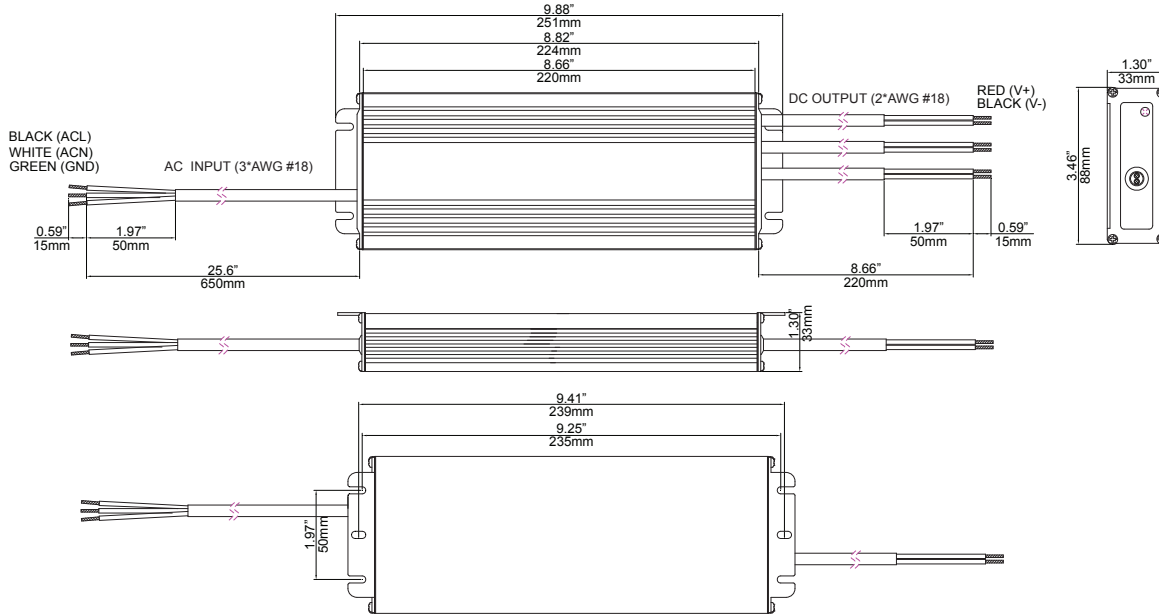
PS	12	-220W	-100-277V
Power Supply	Output Voltage	Output Wattage	Input Voltage Range

Safety & EMC Compliance

Safety Category	Country	Standard
CUL	USA & Canada	UL8750, UL935, UL1012, CSA-C22.2 No. 107.1
CE	Europe	EN61347- 1, EN61347- 2-13:2006
EMI Standards		Notes
EN 55015		Conducted emission Test & Radiated emission Test with 6 dB margin
EN 61000-3-2		Harmonic current emissions: Class C
EN 61000-3-3		Voltage fluctuations & flicker
EN 61000-4-2		Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
EN 61000-4-3		Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4		Electrical Fast Transient / Burst-EFT
EN 61000-4-5		Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV
EN 61000-4-6		Conducted Radio Frequency Disturbances Test-CS
EN 61000-4-8		Power Frequency Magnetic Field Test
EN 61000-4-11		Voltage Dips
EN 61547		Electromagnetic Immunity Requirements Applies to Lighting Equipment

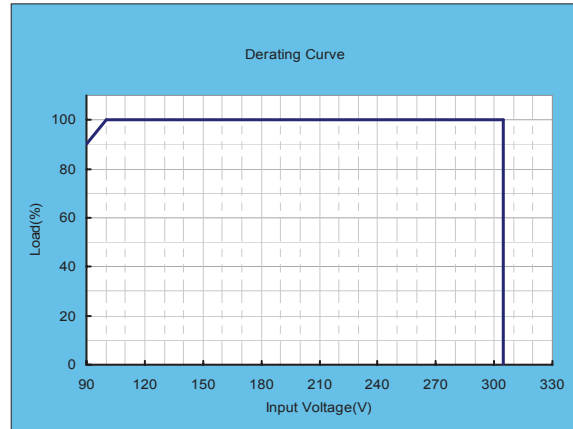
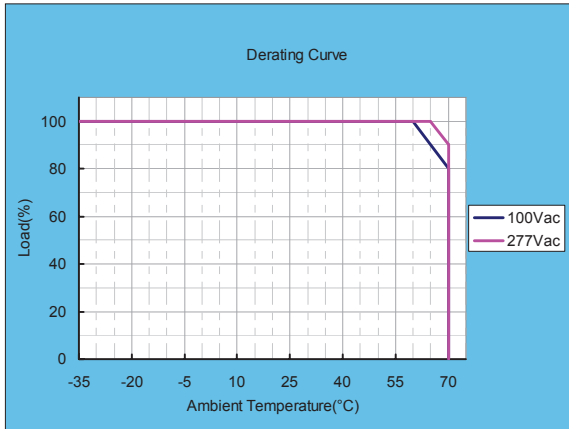
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Mechanical Outline



- (1) The 3 DC output cables are connected in parallel internally because one AWG #18 wire can only carry 10A. Please connect the 3 red wires together and 3 black wires together in application, or ensure each cable carries same current.
- (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



Shipping Information

Ordering Code	SKU	Case Quantity	SKU Weight	Case Weight	SKU Dimensions (W x D x H)	Case Dimensions (W x D x H)
PS12-220W-100-277V	1 unit/SKU	12 SKUs/Case	2.9 lb 1.3 kg	39.9 lb 18.1 kg	9.88"x3.46"x1.28" 251x88x32.5mm	19.7" x 14.6" x 13.2" 500 x 370 x 335 mm



General LED, Inc.
 1074 Arion Circle, Ste 116
 San Antonio, TX 78216
 United States of America
 +1.866.482.0203
www.AgiLight.com
www.GenLEDLighting.com
www.GeneralLED.com

General LED Fze
 822, Building 4EA
 Dubai Airport Free Zone
 Dubai, United Arab Emirates
 +971 4 7017901822



1. The maximum case temperature shall not exceed 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, damp and wet locations.