UPSPro® 120W Lithium Series

DATA SHEET

120W Lithium UPS Systems

Features

- **Solar Ready™**
- **Weatherproof, UV resistant, outdoor enclosures**
- **Powered from AC mains power and/or Solar**
- **LFP (LiFePO4) Lithium Batteries**
- **Isolates Customer Equipment from Power Line Surges**
- **Interior space for customer electronics**
- **Wall or Pole Mounting**

UPSPro® 120W Polycarbonate Enclosure

Applications

- **Wireless Base Stations and Clients**
- **Wireless Bridge and Repeaters**
- **Mission critical outdoor power**
- **Surveillance Cameras**
- **Remote Sensors**
- **Backup Power Systems**

UPSPro® 120W Aluminum Enclosure

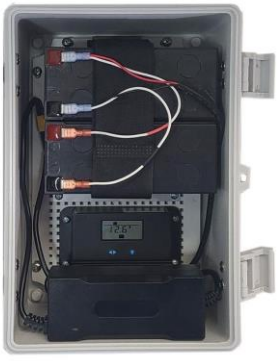
Description

The UPSPro® 120W Lithium series outdoor enclosures are designed for applications that require a backup power source in order to maintain uninterrupted service to customers. The enclosure is powered from 120/240VAC. It is also solar ready so a solar panel can be added as an alternate power source or to extend backup time. Features include an advanced solar battery charge controller with LCD display to provide system information, LVD load control and solar charging capability. The LFP (LiFePO4) Lithium batteries have an embedded BMS (Battery Management System) to maintain proper charging of the Lithium batteries to achieve 4000+ cycle life at 80% discharge. Expected battery life is 10+ years. Enclosures have multiple ports for CAT5 cable, antenna cables/connectors or other cabling.

There is some space inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, etc. Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.

Multiple configurations are available for 12V or 24V systems with various battery storage capacities.

A typical wireless access point with average power consumption of 4W will run 24 hours on a 10Ah battery.



UPS-PL12-20L-120

UPS-PL12-40L-120

UPS-24-100L-120

UPSPro® 120W Lithium Series

Specifications

	UPS-PLxx-xxL-120 Polycarbonate		UPS-xx-xxL-120 Aluminum
Battery Voltage (DC)	12V or 24V		
Input Voltage (AC)	100/240VAC, 47-63Hz, 2A Max.		
Max Output Power	120W		
Suggested Maximum Load	100W		
Maximum Instantaneous Load	20A 500msec		
Battery Type	LFP (LiFePO4) Lithium without heater		
Battery Life	10+ Years		
Controller Type	20A PWM Solar Controller with Status Display and Load on/off switch *Max Solar Panel Size 12V 240W , 24V 480W*		
Controller Display Status	Battery Voltage, Charging Current, Load Current, Temperature		
Overcharge Protection	14.4V / 28.8V		
Over-discharge protection	11V / 22V		
Over-discharge recovery voltage	12.3V / 24.6V		
Controller Self Consumption	<0.3W		
Enclosure Type	SM Polycarbonate	LG Polycarbonate	SM Aluminum
Enclosure Size	11 x 7 x 6" (279 x 178 x 152mm)	15 x 11 x 6.5" (381 x 279 x 165mm)	12 x 14 x 15" (305 x 356 x 381mm)
Operating Temperature	**0°C to +60°C (32°F to 140°F)**		
System Weight (without batteries)	5lb (2.3kg)	7lb (3.2kg)	21lb (9.5kg)
Battery Weight (each)	2.2lb (1kg)		13.5lb (6kg)
Warranty	3 Years		

System Ordering:

Model #	Enclosure Type	Battery Voltage	Battery Capacity	Total Watt Hours Storage Capacity	Backup Time at 50W Avg Load	System Weight
UPS-PL12-10L-120	SM Polycarbonate	12VDC	10Ah	120	2hrs	7.2lb (2.8kg)
UPS-PL12-20L-120	SM Polycarbonate	12VDC	20Ah	240	4hrs	9.4lb (4.3kg)
UPS-PL24-20L-120	SM Polycarbonate	24VDC	20Ah	240	4hrs	9.4lb (4.3kg)
UPS-PL12-40L-120	LG Polycarbonate	12VDC	40Ah	480	8hrs	15.8lb (7.2kg)
UPS-PL24-40L-120	LG Polycarbonate	24VDC	40Ah	480	8hrs	15.8lb (7.2kg)
UPS-12-50L-120	SM Aluminum	12VDC	50Ah	600	10hrs	34.5lb (15.6kg)
UPS-24-100L-120	SM Aluminum	24VDC	100Ah	1200	19hrs	48lb (22kg)

Note: *The Lithium batteries used in these systems do not have heaters. Batteries will continue to supply power but will not accept a charge if battery temperature drops below 0ºC (32ºF). These systems are only recommended for milder winter climates.*

To calculate run time:

Battery Capacity (Ah) / 1.25 / Load Amps = Estimated Run Time in Hours ---OR---
Storage Capacity (Wh) / 1.25 / Load Watts = Estimated Run Time in Hours.

Example: Estimated load = 25W and Storage Capacity is 480Wh. 480 / 1.25 / 25 = 15hrs run time.
Note: We divide by 1.25 because we don't want to discharge the battery more than 75% in order to extend its life.

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RoHS compliant

Specifications Subject to Change Without Notice