



**UPSPro<sup>®</sup> 120W**

**DATA SHEET**

## 120W Outdoor UPS Systems

### Features

- Weatherproof, UV resistant, outdoor enclosures
- Powered from AC mains power and/or Solar
- Interior space for customer electronics
- Wall or Pole Mounting
- Isolates Customer Equipment from Power Line Surges
- High Quality AGM Sealed Lead Acid Batteries
- Advanced battery charge controller protects against overcharge and over discharge

### Applications

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

### Description

The UPSPro<sup>®</sup> 120W 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 battery charge controller to protect against over-charging or over-discharging of the valve regulated sealed lead acid AGM batteries. Enclosures have multiple ports for CAT5 cable, antenna cables/connectors or other cabling. They are vented to prevent residual buildup of hydrogen gas.

There is some space inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, inverters, 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 250mW wireless access point with average power consumption of 4W will run 24 hours on a 9Ah battery at room temperature or 16 hours at -20 deg C.



UPSPro<sup>®</sup> 120W  
Polycarbonate Enclosure



UPSPro<sup>®</sup> 120W  
Steel Enclosure



UPS-PL12-36-120



UPS-ST24-100-120

## Specifications

	UPS-PLxx-xx-120	UPS-STxx-xx-120
<b>Battery Voltage (DC)</b>	12V or 24V	
<b>Input Voltage (AC)</b>	120/240VAC, 50/60Hz, 2.5A Max.	
<b>Available 12V Capacities (Amp Hr)</b>	18Ah(2 batteries), 36Ah(4 batteries)	50Ah(1 Battery), 100Ah(2 batteries)
<b>Avail Storage Capacity (Watt Hr)</b>	216Wh, 432Wh	600Wh, 1200Wh
<b>Max Output Power</b>	120W	
<b>Suggested Maximum Load</b>	100W	
<b>Maximum Instantaneous Load</b>	20A 500msec	
<b>Battery Type</b>	Valve Regulated Sealed Lead Acid / Absorbed Glass Mat (AGM)	
<b>Battery Life</b>	5 Years	
<b>Controller Type</b>	20A PWM Solar Controller with Status Display and Load on/off switch <i>Max Solar Panel Size 12V 240W , 24V 480W</i>	
<b>Controller Display Status</b>	Battery Voltage, Charging Current, Load Current, Temperature	
<b>Overcharge Protection</b>	14.4V / 28.8V	
<b>Over-discharge protection</b>	11V / 22V	
<b>Over-discharge recovery voltage</b>	12.3V / 24.6V	
<b>Controller Self Consumption</b>	<0.3W	
<b>Enclosure Type</b>	Polycarbonate	Powder Coated Steel
<b>Enclosure External Size</b>	17.5 x 12.5 x 6" (445 x 318 x 152mm)	24 x 15 x 14" (610 x 381 x 356mm)
<b>Enclosure Internal Size</b>	14 x 10 x 5" (356 x 254 x 127mm)	23 x 14 x 12" (584 x 356 x 305mm)
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)	
<b>System Weight (without batteries)</b>	6lb (1.8kg)	55lb (25kg)
<b>Battery Weight (each)</b>	5.5lb (2.5kg)	37lb (17kg)
<b>Certifications</b>	Individual components used have CE Certifications. Batteries have CE and UL.	
<b>Warranty</b>	3 Years	

## System Ordering:

Model #	Enclosure Type	Battery Voltage	12V Battery Capacity	Total Watt Hours Storage Capacity
UPS-PL12-18-120	Polycarbonate	12VDC	18Ah	216
UPS-PL12-36-120	Polycarbonate	12VDC	36Ah	432
UPS-PL24-18-120	Polycarbonate	24VDC	18Ah	216
UPS-PL24-36-120	Polycarbonate	24VDC	36Ah	432
UPS-ST12-50-120	Steel	12VDC	50Ah	600
UPS-ST24-100-120	Steel	24VDC	100Ah	1200

### To calculate run time:

Battery Capacity (Ah) / 2 / Load Amps = Estimated Run Time in Hours ---OR---  
Storage Capacity (Wh) / 2 / Load Watts = Estimated Run Time in Hours.

Example: Estimated load = 25W and Storage Capacity is 432Wh.  $432 / 2 / 25 = 8.64$ hrs run time.

Note: We divide by 2 because we don't want to discharge the battery more than 50% in order to extend its life.

## For further information contact:

Tyconsystems.com

