



**UPS12-50-xxx**

**DATA SHEET**

**UPSPro® 120W & 600W Outdoor UPS System**

**Features**

- 12VDC System
- Weatherproof, UV resistant, Aluminum Outdoor Enclosure
- Powered from AC Mains Power and/or Solar
- Interior Space for Customer Electronics
- Pole/Wall Mounting
- Isolates Connected Equipment from Power Line Surges
- High Quality Maintenance Free AGM Batteries
- Advanced Battery Charge Controller Protects Against Overcharge and Over Discharge



**Applications**

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

**Description**

The UPSPro® UPS12-50-120 and UPS12-50-600 outdoor backup power systems are designed for applications that require a reliable backup power source in order to maintain uninterrupted service to customers. The enclosure is powered from 120/240VAC. It is also solar ready (requires blocking diode with most panels) so a solar panel can be added as an alternate power source or to extend backup time.

Features include 12VDC load controlled output, an advanced 20A PWM battery charge controller to protect against overcharging or over-discharging of the valve regulated sealed lead acid AGM batteries. The pole/wall mount aluminum enclosure has multiple ports for CAT5 cable, antenna cables/connectors or other cabling. They have thermostatically controlled power ventilation which turns on automatically when inside temperature exceeds 45C.

There is generous space inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, inverters, etc. There are mounting struts incorporated inside the enclosure to be able to mount DIN Rails or a flat metal or plywood plate. Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.



Aluminum Enclosure

12V 52Ah Battery

600W Battery Charger

20A PWM Charge Controller

## Specifications

	UPS12-50-120	UPS12-50-600
<b>Battery Voltage (DC)</b>	12VDC	
<b>Input Voltage (AC)</b>	120/240VAC, 50/60Hz, 5A Max.	
<b>Capacities (Amp Hr)</b>	50Ah	
<b>Avail Storage Capacity (Watt Hr)</b>	600Whr	
<b>Max Output Power</b>	120W	600W
<b>Suggested Maximum Load</b>	100W	240W
<b>Maximum Instantaneous Load</b>	20A 500msec	
<b>Battery Type</b>	Maintenance Free, Valve Regulated, Sealed Lead Acid, AGM	
<b>Battery Life</b>	5+ years	
<b>Battery Cable Fuse</b>	6x32mm 30A 250V Ceramic Fuse	
<b>Controller Type</b>	20A PWM Solar Controller with Status Display and 20A Load Control	
<b>Maximum Solar Panel Size</b>	240W @ 12V	
<b>Controller Display Status</b>	Battery Voltage, Charging Voltage, Charging Current, Load Current, Temperature	
<b>Bulk Charge</b>	14.4V	
<b>Float Charge</b>	13.8V	
<b>Over-discharge protection</b>	11V	
<b>Over-discharge recovery voltage</b>	12.6V	
<b>Controller Self Consumption</b>	<0.3W	
<b>Enclosure Type</b>	Pole/Wall Mount Powder Coat Aluminum	
<b>Enclosure Size</b>	12 x 14 x 15" (305 x 356 x 381mm)	
<b>Operating Temperature</b>	-40°C to +65°C (-40°F to 149°F)	
<b>System Weight (without batteries)</b>	20lbs (9kg)	
<b>Battery Weight</b>	1 x 40lbs (18kg)	
<b>Certifications</b>	Individual components used have CE Certifications.	
<b>Warranty</b>	3 Years	

### System Ordering:

**UPS12-50-120** 12V 120W Backup Power System, 50Ah

**UPS12-50-600** 12V 600W Backup Power System, 50Ah

#### 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 = 50W and Storage Capacity is 1200Wh.  $1200 / 2 / 50 = 12$ 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](http://Tyconsystems.com)

