



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

