UPSPro® 600W Lithium Series

DATA SHEET

600W 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® 600W
LG Aluminum Enclosure



UPSPro® 600W
Steel Enclosure

Applications

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

Description

The UPSPro® 600W 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 (blocking diodes may be required), so a solar panel can be added as an alternate power source or to extend backup time. Features include an advanced MPPT 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 PTZ camera with average power consumption of 20W will run 48 hours on a 100Ah battery.



UPL12/24-200L-600



UPSTL12/24-200L-600







UPSPro® 600W Lithium Series

Specifications

	UPL-12-100L-600 LG Aluminum	UPL12/24-x00L-600 LG Aluminum	UPSTL12/24-200L-600 Steel
Battery Voltage (DC)	12V	12V or 24V	
Charger Input Voltage (AC)	100/240VAC, 47-63Hz		
Max Output Power	600W		
Suggested Maximum Load	350W @ 12V, 400W @ 24V		
Maximum Instantaneous Load	30A 500msec		
Battery Type	Wide Temp LFP (LiFePO4) Lithium (no heater needed)		
Battery Life	10+ Years		
Controller Type	60A MPPT Solar Controller with Status Display and Load on/off switch *Max Solar Panel Size 12V 720W , 24V 1440W 150V Max*		
Controller Display Status	Battery Voltage, Charging Current, Load Current, Temperature		
Charge Voltage	14.4V	14.4V / 28.8V	
Over-discharge protection	11V	11V / 22V	
Over-discharge recovery voltage	12.3V	12.3V / 24.6V	
Controller Self Consumption	<1W		
Enclosure Type	LG Aluminum	LG Aluminum	Steel
Enclosure Size	21 x 14 x 15" (533 x 356 x 381mm)	21 x 14 x 15" (533 x 356 x 381mm)	24.1 x 24.1 x 17.5" (612.5 x 612.5 x 445.6mm)
Operating Temperature	**0°C to +60°C (32°F to 140°F)**		
System Weight (without batteries)	34lb (15kg)	34lb (15kg)	83lb (38kg)
Battery Weight (each)	23.1lb (10.5kg)		
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
UPL12-100L-600	LG Aluminum	12VDC	100Ah	1200	19hrs	61lb (28kg)
UPL12/24-200L-600	LG Aluminum	12/24VDC	200Ah	2400	38hrs	88lb (40kg)
UPSTL12/24-200L-600	Steel	12/24VDC	200Ah	2400	38hrs	137lb (62kg)

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 600Wh. 600 / 1.25 / 25 = 19hrs 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.

For further information contact:

Tyconsystems.com

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TYCON Solar®
930 W 14600 S Suite 600
Bluffdale, UT 84065
PH: 801-432-0003
FAX: 801-618-4220