



DATA SHEET

200Ah Lithium UPS Systems

Features

- Solar Ready™
- 48V MPPT Charge Controller with 7 Port GigE PoE Switch. Ports can be configured for 802.3at or 24V Passive PoE. Remote Monitoring and Control.
- Weatherproof, UV resistant, outdoor enclosures
- Powered from AC mains power and/or Solar
- LFP (LiFePO4) Lithium Batteries
- Interior space for customer electronics
- Wall or Pole Mounting

Applications

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

Description

The UPSPro® STL48-200L outdoor enclosures are designed for applications that require a flexible 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 charge controller with 7 Port GigE PoE switch and built-in remote monitoring and management. The PoE switch ports can be configured as 802.3at or 24V Passive PoE. There is a configurable wire terminal aux port. The steel 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 some space inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, inverters, etc. There is a 1U rack mount feature in the enclosure for rack mounting. Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.



UPSPro® STL48-200L
Steel Enclosure



UPSTL48-200L-900



600W Charger



900W Charger



Specifications

	UPS-STL48-200L-600	UPS-STL48-200L-900
Battery Voltage (DC)	48V	
Input Voltage (AC)	100/240VAC, 47/63Hz	
Battery Capacity	200Ah	
Avail Storage Capacity	2400Wh	
Charger Output Power	600W	900W
Maximum MPPT Controller Load	150W 48V outputs, 72W 24V outputs (overall total 222W)	
Battery Type	LFP (LiFePO4) Lithium without heater	
Battery Life	10+ Years	
Battery Cable Fuse	40A 250V Blade Fuse	
Controller Type	20A MPPT Solar Controller with 7 port GigE PoE Switch, 4 ports configurable as 802.3at or 24V Passive, 3 ports configurable as 24/48V Passive PoE, Aux port configurable as 24/48V 2.25A, Managed, Email Alerts, Data Logging, Remote Management	
Maximum Solar Panel Size	960W	
Bulk Charge	58.4V	
Over-discharge protection	51.2V	
Over-discharge recovery voltage	51.5V	
Controller Self Consumption	<3.5W	
Enclosure Type	Powder Coated Steel – Pole/Wall Mount – Padlock Closure	
Enclosure External Size	24.1 x 24.1 x 17.5" (612.5 x 612.5 x 445.6mm)	
Enclosure Internal Size	23.9 x 23.9 x 16.1" (608 x 608 x 409.5mm)	
Operating Temperature	-0°C to +60°C (32°F to 140°F)	
System Weight (without batteries)	75lb (34kg)	76lb (34.4kg)
Battery Weight	4 x 13.5lb (6kg)	
Certifications	Individual components used have CE Certifications.	
Warranty	3 Years	

System Ordering:

Model #	Enclosure Type	Battery Voltage	Battery Capacity	Total Watt Hours Storage Capacity	Backup Time at 50W Avg Load	Charging Power	System Weight
UPS-STL48-200L-600	Powder Coat Steel	48VDC	200Ah	2400	38hrs	600W	137lb (62kg)
UPS-STL48-200L-900	Powder Coat Steel	48VDC	200Ah	2400	38hrs	900W	138lb (63kg)

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 0°C (32°F). 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 = 50W and Storage Capacity is 2400Wh. 2400 / 1.25 / 50 = 38hrs 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

