



# UPSPro<sup>®</sup> STL12/48

## DATA SHEET

### 600W Outdoor UPS Systems

#### Features

- Weatherproof (IP65), 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> STL12/48-600W 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 (requires blocking diode with most panels) can be added as an alternate power source or to extend backup time.

Features include an advanced manageable MPPT battery charge controller to protect against over-charging or over-discharging of the valve regulated sealed lead acid AGM batteries. The charge controller displays battery level, charging current, temperature and load current on its embedded LCD display. Charging parameters can be customized in the field if required.

Enclosures have multiple ports for CAT5 cable, antenna cables/connectors or other cabling. They have a 12/24VDC thermostatically controlled ventilation fan which turns on automatically when the inside temperature exceeds 40°C.

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.

Systems can be configured for 12V or 24V or 48V for added flexibility. Various battery storage capacities are available.

These systems are ideal for powering security cameras 24/7 from lighting systems where grid power is only available at night. Additional AC inputs such as 277VAC or 480VAC can be adapted by using standard AC transformers. Consult you electrician.



UPSPro<sup>®</sup> STL12/48-600W



UPS-STL12/48-200-600 (4 Batteries)



UPS-STL12/48-400-600 (8 Batteries)

**Specifications**

	UPS-STL12/48-200-600	UPS-STL12/48-400-600
<b>Battery Voltage (DC)</b>	12/24/48VDC	
<b>Input Voltage (AC)</b>	120/240VAC, 50/60Hz, 5A Max.	
<b>Capacities (Amp Hr) @ 12V</b>	200Ah (4 batteries)	400Ah (8 batteries)
<b>Storage Capacity (Watt Hr)</b>	2400Wh	4800Wh
<b>Max Output Power</b>	600W	
<b>Suggested Maximum Load</b>	240W @ 12VDC or 450W @ 24/48VDC	
<b>Maximum Instantaneous Load</b>	20A 500msec	
<b>Battery Type</b>	Valve Regulated Sealed Lead Acid / Absorbent Glass Mat (AGM)	
<b>Battery Life</b>	5 Years	
<b>Battery Cable Fuse</b>	6 x 32mm Ceramic 30A 250V	
<b>Controller Type</b>	60A MPPT Solar Controller with Status Display and 20A Load with on/off switch	
<b>Maximum Solar Panel Size</b>	780W @ 12V Battery Config, 1560W @ 24V Battery Config, 3120W @ 48V Battery Config	
<b>Controller Display Status</b>	Battery Voltage, Charging Voltage, Charging Current, Load Current, Temperature	
<b>Bulk Charge</b>	14.4V / 28.8V / 57.6V	
<b>Float Charge</b>	13.8V / 27.6V / 55.2V	
<b>Over-discharge protection</b>	11V / 22V / 44V	
<b>Over-discharge recovery voltage</b>	12.6V / 25.2V / 50.4V	
<b>Controller Self Consumption</b>	<1W	
<b>Enclosure Type</b>	Powder Coated Steel – Pole/Wall Mount	
<b>Enclosure External Size</b>	24.1 x 24.1 x 17.5" (612.5 x 612.5 x 445.6mm)	
<b>Enclosure Internal Size</b>	23.9 x 23.9 x 16.1" (608 x 608 x 409.5mm)	
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)	
<b>System Weight (without batteries)</b>	75lb (34kg)	
<b>Battery Weight (each)</b>	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	Battery Capacity (@ 12V)	Total Watt Hours Storage Capacity	Total Power
UPS-STL12/48-200-600	Powder Coat Steel	12/24/48VDC	200Ah	2400	600W
UPS-STL12/48-400-600	Powder Coat Steel	12/24/48VDC	400Ah	4800	600W

**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.  $1200 / 2 / 50 = 12\text{hrs run time.}$

*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

