

### Outdoor UPS System

#### Features

- Up to 192W Maximum Continuous Output
- 12VDC, 24VDC and 48VDC systems
- Isolates Equipment from Power Line Surges
- High Performance GEL Sealed Lead Acid Batteries
- Choice of 51Ah (600VA) to 204Ah (2400VA) Battery Capacity
- Operating Temperature -30C to +60C
- Weatherproof Nema 4X / IP65, UV Resistant, Locking Outdoor Enclosure

#### Application

- Wireless Base Stations
- Security Applications
- Electric gates and fences
- Cell Towers

#### Description

The UPSPro™ ST outdoor UPS systems are designed to provide up to 192W backup power. There is enough backup power to keep a wireless base station alive for many hours. The controller provides load control to make sure the batteries don't over-discharge. This greatly extends the life of the batteries. The load output is also regulated to be sure that the voltage doesn't exceed the maximum voltage allowed by the load. The system is powered from 120VAC or 240VAC power. In case of power failure the transition to battery power is seamless and automatic. Recovery is automatic. The controller supports GEL/AGM or wet batteries. Systems are available without batteries to save on international shipping costs.

The weatherproof enclosure with security locks has multiple ports for CAT5 cable, solar and other cabling. It is vented to prevent residual buildup of any hydrogen gas. The included bracket kit allows for the enclosure to be pole mounted or wall mounted. The systems are rated to operate over a wide temperature range of -30C to +60C.

There are multiple system configurations available: 12V 51Ah(600VA), 12V 102Ah(1200VA), 12V 204Ah(2400VA), 24V 51Ah(1200VA), 24V 102Ah(2400VA) and 48V 51Ah(2400VA) Battery.

There is a generous amount of space reserved inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, inverters, etc. The standard component layout is designed for ease of maintenance.

Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.

The system is also compatible with the TPSK Solar panel kits. A TPW wind turbine system can also be used as an alternate power source in addition to solar and AC power.



## Specifications

	UPS-ST12	UPS-ST24	UPS-ST48
<b>Load Voltage</b>	12V +/- 0.5V	24V +/- 0.5V	48V +/- 0.5V
<b>Maximum Load Output</b>	12A (144W)	8A (192W)	4A (192W)
<b>Minimum Load Output</b>	1A	1A	1A
<b>Available Storage Capacities</b>	1 battery 51Ah 600VA 2 battery 102Ah 1200VA 4 battery 204Ah 2400VA	2 battery 51Ah 1200VA 4 battery 102Ah 2400VA	4 battery 51Ah 2400VA
<b>Battery Type</b>	Non-Spillable Valve Regulated Sealed Lead Acid / GEL		
<b>Battery Life (Typical)</b>	5 Years		
<b>Charge Voltage</b>	WET Equalize = 14.6V, Float = 13.2V GEL Equalize = 14.2V, Float = 13.5V	WET Equalize = 28.8V, Float = 26.4V GEL Equalize = 28.4V, Float = 27V	WET Equalize = 58V, Float = 53V GEL Equalize = 56.8, Float = 54V
<b>Maximum Charge Current</b>	12A	12A	6A
<b>Over-Discharge Protection</b>	10.7V Load Off 12.6V Load On	21.5V Load Off 25.2V Load On	40V Load Off 51V Load On
<b>Other Protection</b>	Short Circuit, Reverse Battery, Over Voltage		
<b>VAC Input +/- 10%</b>	Selector Switch 120VAC / 240VAC , 50/60Hz		
<b>VAC Input Current</b>	3.5A @ 115VAC / 1.8A @ 240VAC		
<b>Fuse</b>	6A internal		
<b>Self Consumption</b>	<5W		
<b>Enclosure Type</b>	Powder Coated Steel, Security Locks, Pole (2" to 4") or Wall Mount		
<b>Enclosure External Size</b>	24 x 15 x 14" (610 x 381 x 356mm)		
<b>Enclosure Internal Size</b>	23 x 14 x 12" (584 x 356 x 305mm)		
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)		
<b>System Weight (no batteries)</b>	55lb (25kg)		
<b>Battery Weight</b>	37lb (17kg) each x 1, 2 or 4	37lb (17kg) each x 2 or 4	37lb (17kg) each x 4

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Outdoor UPS carry a 2 year limited warranty



12V 204Ah Battery Configuration



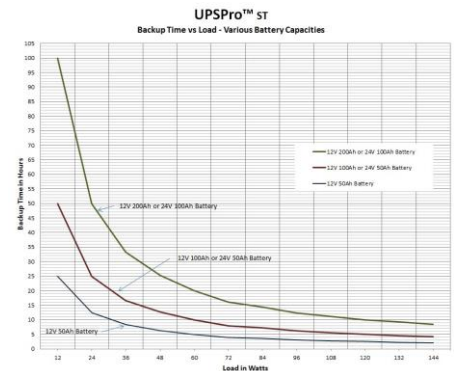
Smart 300W Charge Controller



24V 102Ah Battery Configuration



48V 51Ah Battery Configuration



**System Ordering:**

- UPS-ST12-50 **UPSPro™** 12VDC 144W 600VA backup system, 51Ah 12V battery
- UPS-ST12-100 **UPSPro™** 12VDC 144W 1200VA backup system, 102Ah 12V battery
- UPS-ST12-200 **UPSPro™** 12VDC 144W 2400VA backup system, 204Ah 12V battery
- UPS-ST24-50 **UPSPro™** 24VDC 192W 1200VA backup system, 51Ah 24V battery
- UPS-ST24-100 **UPSPro™** 24VDC 192W 2400VA backup system, 102Ah 24V battery
- UPS-ST48-50 **UPSPro™** 48VDC 192W 2400VA backup system, 51Ah 48V battery
- UPS-ST12-NB **UPSPro™** 12VDC 144W backup system, NO BATTERY
- UPS-ST24-NB **UPSPro™** 24VDC 192W backup system, NO BATTERY
- UPS-ST48-NB **UPSPro™** 48VDC 192W backup system, NO BATTERY

**For further information contact:**

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