

# Outdoor XUPS

## XUPS Model

600-6969

500 W  
62 AH battery  
1.4 hr backup

600-6969

250 W  
62 AH battery  
4.3 hr backup

1000-6969

840 W  
62 AH battery  
45 min backup

1000-6969

420 W  
62 AH battery  
2 hr backup

EXT-6969  
Can be added  
for extended  
backup



1103 W Pierce Avenue  
Antigo, WI 54409 USA

Tel: + 1-715-623-0636  
Fax: + 1-715-623-2426  
Toll-Free: 1-800-874-3160  
email: sales@tsipower.com  
Web: www.tsipower.com

Pure Sine Wave

Wide Temperature Batteries

Voltage Regulation

## Outdoor UPS with voltage regulation

**TSi Power's** Outdoor XUPS series is equipped with wide-temperature, pure lead, gel batteries and is housed in a weather-protected enclosure. It offers line interactive automatic voltage regulation, over/under voltage protection, surge protection with heavy duty noise filtering, communications capability and optional extended battery backup.

### Typical XUPS applications

The XUPS is ideal for the protection of telecom DAS systems with up to two low-power radio heads on the same pole.

### How the XUPS works

The outdoor XUPS series provides automatic voltage regulation with surge protection and noise filtering, as well as over voltage protection with a threshold of 136 V and under voltage protection with a threshold of 96 V. In the event of a brownout, overvoltage or loss of power, the



Front/right side view with circuit breaker cover and front door latch

XUPS will transfer to battery power quickly, enabling uninterrupted operation of the critical load.

### Features and Benefits

- Built-in automatic voltage regulation enables a wide-input voltage window to deliver power while preventing unnecessary battery drain.
- Precise output current limiting permits start of induction motors and other difficult loads.
- Compatible with high-quality generators.
- Pole-mounted with universal bracket for utmost mounting flexibility.
- Blends in with pole thanks to elongated shape.
- Rain tested to UL 50E standards.
- The XUPS uses wide temperature, pure lead, gel batteries and internal cooling fan to extend battery life and protect electronic components.
- Operates in line mode with bad battery bank, which prevents unscheduled service calls.
- Easy to repair because internal circuit board assemblies are connectorized.
- LED status indicators show voltage, load and battery levels.
- Heavy-duty surge protection and noise filtering protects load and UPS.

SPECIFICATION	OUTDOOR XUPS-600-6969	OUTDOOR XUPS-1000-6969
<b>INPUT</b>		
Nominal voltage	115 V, 60 Hz	
Operating voltage	96 - 136 V without transferring to inverter	
Current @96 V & max charging	8.5 A	12 A
Circuit breaker	Two-pole 10 A	Two-pole 15 A
Surge voltage withstand	ANSI/IEEE: 6 kV, 1.2 x 50 $\mu$ s / 3 kA, 8 x 20 $\mu$ s; L-N: 450 V L-G: 300 V N-G: 300 V	
<b>OUTPUT</b>		
Output power	500 W	840 W
Voltage	115 V $\pm$ 8%	
Circuit breaker	7 A push-to-reset	10 A push-to-reset
Crest factor	3 : 1	
Waveform and THD	Sine wave, < 3% THD with linear load	
Power efficiency	Line: 97%, Inverter: 92% under full load conditions	
Transfer time	0 to 8 milliseconds	
<b>BATTERY</b>		
Type	8GU1 MK Battery: MU-1SLDG, 8GU1	
Dimensions and weight	7.71" / 196 mm long 5.18" / 132 mm wide 7.22" / 183 mm high; 23 lbs / 10.5 kg	
Ah @20 hr rate and bus voltage	62 Ah, 24 V	31 Ah, 24 V
Number of batteries	4	2
Battery heater pad BH 5	34 W two required	34 W one required
Battery circuit breaker	30 A	60 A
Temp. range fully charged	-4° to +140° F (-20° to +60° C), -40° to +140° F (-40° to + 60° C) with optional battery heater	
Battery backup time vs. load	62 Ah battery bus 500 W load: 1.4 hrs; 250 W load: 4.3 hrs	31 Ah battery bus 500 W load: 30 min; 250 W load: 1.4 hrs
	62 Ah battery bus 840 W load: 45 min; 420 W load: 2 hrs	31 Ah battery bus 840 W load: 17 min; 420 W load: 45 min
*Depends on condition of battery		
Recharge time	Temperature compensated charger, charge to 90% capacity after full discharge	
	10 hours	6 hours
<b>INDICATORS AND ALARMS</b>		
Status indicators	5 LED load level indicators: 0 to 100% of rated load; 5 LED battery charge level indicators from 0 to 100% of rated load; 3 LED indicators for: in boost, buck or normal mode; 3 LED indicators for: inverter on / off, battery fault and overload.	
DB-9 port	1: Pins 6/7 2: Pins 8/9 1: Inverter on/off 2: Battery >44 V/<44 V	
<b>PHYSICAL</b>		
Dimensions	11.5" (293 mm) wide x 26" (660 mm) high x 11.5" (293 mm) deep	
Aluminum cabinet	Outdoor type, powder coated, rain tested to NEMA 3R UL 50E	
Input / output connections	3 position terminal block provided for 3 x 12 AWG 1/2" holes for conduit connectors	
Weights lbs / kg	Without batteries: 68 lbs / 31 kg With 4 batteries: 160 lbs / 72 kg	
Mounting option	Bolting or banding to wood or steel pole via optional universal bracket. Bracket part number: ZC00497 (stainless steel pole mounting bands or through bolts not included)	
<b>ENVIRONMENTAL</b>		
Operating temperature	14° to +113° F (-10° to +45° C) ambient air temperature	
Battery heater option	-40° to +113° F (-40° to +45° C) with optional battery heater	
Moisture protection	Conformal coating of electronic boards for moisture resistance	
<b>SAFETY</b>		
Standards	ETL listed to UL 60950-1 and UL 1778	
<b>WARRANTY</b>		
Warranty	Two-year limited warranty, parts and labor. Manufacturer's warranty on batteries.	


**TSi POWER**

 1103 W Pierce Avenue  
 Antigo, WI 54409 USA

 Tel: + 1-715-623-0636  
 Fax: + 1-715-623-2426  
 Toll-Free: 1-800-874-3160

 email: sales@tsipower.com  
 Web: www.tsipower.com

## Outdoor-XUPS-600/1000-6969 system architecture

