

Outdoor XUPS

Pure sine wave

Wide temperature batteries

Voltage regulation

Outdoor UPS with voltage regulation

UPS Model

600-7070

8.5 A
500 W
62 Ah battery
4.3 hr backup

600-7070

8.5 A
250 W
62 Ah battery
10.6 hr backup

1000-7070

12 A
840 W
62 Ah battery
2 hr backup

1000-7070

12 A
420 W
62 Ah battery
5.2 hr backup

TSi Power's outdoor XUPS series is equipped with wide-temperature, pure lead, gel-cell 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 multiple 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 overvoltage protection with a threshold of 136 V and undervoltage protection with a threshold of 96 V. In the event of a brownout, overvoltage, or loss of power, the XUPS will transfer to battery power quickly, enabling uninterrupted operation of computer, telecom, surveillance, signaling or other systems.



Left front view of Outdoor XUPS-600/1000-7070

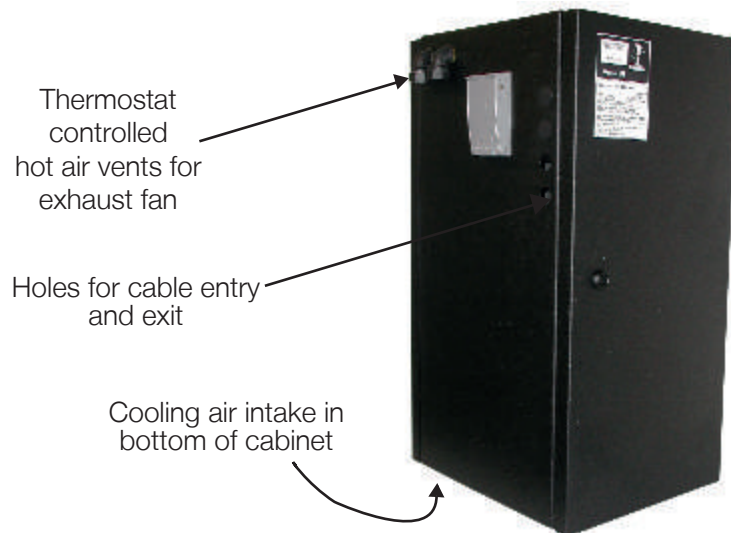
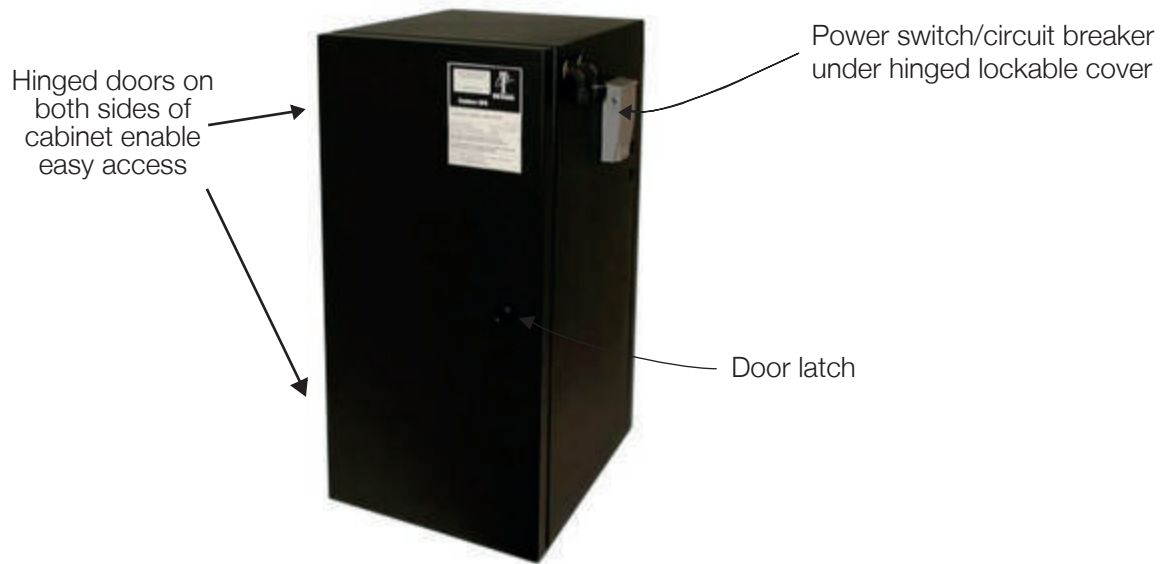
Features and Benefits

- 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.
- Rain tested to NEMA 3R 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 as internal circuit board assemblies are connectorized.
- LED status indicators for voltage, load and battery levels.
- Heavy-duty surge protection and noise filtering protects load and UPS.
- Includes a two year warranty on electronics, parts and labor and the manufacturer's warranty on batteries.

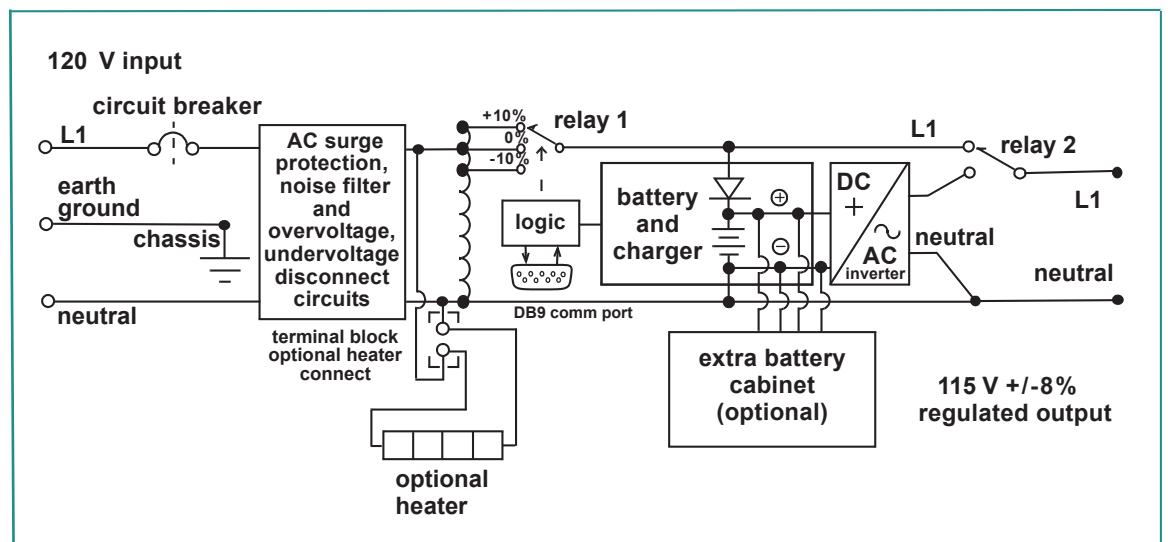


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Specification	Outdoor XUPS-600-7070	Outdoor XUPS-1000-7070
Input		
Nominal voltage	115 V	
Operating voltage	96 - 136 V without transferring to inverter	
Current @96V & max charging	8.5 A	12 A
Frequency	47 - 63 Hz	
Circuit breaker	Two-pole 10 A	Two-pole 15 A
Surge voltage test condition	ANSI/IEEE: 6 kV, 1.2 x 50 μs/ 3kA, 8 x 20μ s	
Surge voltage let-through	L-N: 450 V L-G: 300 V N-G: 300 V	
Output		
Output power	500 W	840 W
Voltage	115 V ± 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	
Power on/off switch	On / off rocker style power switch	
Transfer time	0 to 8 milliseconds	
Battery		
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 @20hr rate and bus voltage	62 Ah, 48 V	31 Ah, 48 V
Number of batteries	8	4
Battery heater pad BH 5	34 W, four required	34 W, two 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 *Depends on condition of battery	62 Ah battery bus 500 W load: 4.3 hrs 250 W load: 10.6 hrs	31 Ah Battery bus 500 W load: 1.4 hrs 250 W load: 4.35 hrs
	62 Ah battery bus 840 W load: 2 hrs 420 W load: 5.2 hrs	31 Ah Battery bus 840 W load: 45min 420 W load: 2 hrs
Recharge time	Temperature compensated charger, charge to 90% capacity after full discharge	
	18 hours	10 hours
Indicators and alarms		
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	
Physical		
Dimensions	11.5" (293 mm) wide x 26" (660 mm) high x 15.75" (400 mm) deep	
Aluminum cabinet	Outdoor type, powder coated, rain tested to NEMA 3R UL 50	
Input / output connections	3 position terminal block provided for 3 x 12 AWG 1/2" holes for conduit connectors	
Weights lbs / kg	Without batteries: 79 lbs / 36 kg With 8 batteries: 263 lbs / 119 kg	
Mounting option	Bolting or banding to wood or steel via optional universal bracket. Bracket part number: ZC00497 (stainless steel mounting bands or through bolts not included)	
Environmental		
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	
Cooling method	Thermostat controlled exhaust fan	
Moisture protection	Conformal coating of electronic boards for moisture resistance	
Safety		
Standards	Designed to conform to UL 60950-1 and UL 1778	
Warranty		
Warranty	Two-year limited warranty, parts and labor. Manufacturer warranty on batteries.	



Outdoor-XUPS-600/1000-7070 system architecture



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Universal pole-mounting bracket

Photos show rear views of mounting brackets and how cabinet attaches to the universal pole-mounting bracket

