

Outdoor XUPS

Pure Sine Wave | Wide Temperature Batteries | Voltage Regulation

XUPS Model
1500-7070 1400 W
12.2 A 62 Ah battery 1 hr backup
1400 W
21.7 A 31 Ah battery 22 min backup
700 W
12.2 A 62 Ah battery 2.6 hr backup
700 W
21.7 A 31 Ah battery 1 hr backup

Outdoor UPS with voltage regulation

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.



Right front view of Outdoor XUPS-1500-7070

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 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, over voltage, or loss of power, the XUPS will transfer to battery power quickly,

enabling uninterrupted operation of computer, telecom, surveillance, signaling or other systems.



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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.
- The XUPS is compatible with high-quality generators.
- The XUPS can be pole-mounted with universal bracket for utmost mounting flexibility.
- The XUPS uses wide temperature, pure lead, gel batteries for maximum life expectancy.
- Rain tested to UL 50E standards.
- 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.
- Includes a limited two-year warranty on electronics, parts and labor.

SPECIFICATION		OUTDOOR XUPS-1500-7070	
INPUT			
Nominal voltage	115 V, 60 Hz		
Operating voltage	96 - 136 V without transferring to inverter		
Current @96 V & max charging	17.8 A		
Circuit breaker	20 A two-pole magnetic circuit breaker		
Surge voltage withstand	ANSI/IEEE: 6 kV, 1.2 x 50 μ s / 3kA, 8 x 20 μ s: L-N: 450 V L-G: 300 V N-G: 300 V		
OUTPUT			
Output power	1400 W		
Voltage	115 V \pm 8%		
Circuit breaker	15 A push-to-reset circuit breaker, 0.75 derated at 55° C		
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	Inverter to line / line to inverter: 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 @20 hr rate and bus voltage	62 Ah, 48 V	31 Ah, 48 V	
Number of batteries	8	4	
Battery circuit breaker	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 heater pad BH 5	34 W four required		34 W two required
Battery backup time vs. load <i>*Depends on condition of battery</i>	1 hr at 1400 W	2.6 hrs at 700 W	22 min at 1400 W 1 hr at 700 W
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	13.5" (343 mm) wide x 28" (711 mm) high x 15.75" (400 mm) deep		
Aluminum cabinet	Outdoor type, powder coated, rain tested to UL 50E		
Input / output connections	3 position terminal block provided for 3 x 12 AWG 1/2" holes for conduit connectors		
Weights lbs / kg	98 lbs / 44.5 kg With 8 batteries: 282 lbs / 128 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)		
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's warranty on batteries.		


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Outdoor-XUPS-1500-7070 system architecture

