

Outdoor XUPS

XUPS Model

1000-Mini

1050 W
127 V
27 min backup

1000-Mini

500 W
127 V
57 min backup

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

This outdoor UPS is ideal for the protection of telecom DAS systems, perimeter surveillance, security / gate control systems, LED traffic light and roadway display systems.

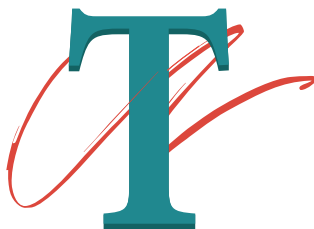
How the XUPS works

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,



Front view showing Outdoor XUPS-1000-Mini with door open

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



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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.
- Internal bypass switch provides power if UPS fails and prevents unnecessary shutdown of connected equipment.
- Listed to UL 60950-22 standard for outdoor equipment.
- The XUPS is 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.
- The XUPS uses wide temperature, pure lead, gel batteries and internal cooling fan to extend battery life and protect electronic components.
- Quiet-ideal for use in locations with noise ordinances.
- The cabinet can be pole-, or wall mounted for utmost mounting flexibility.
- Precise output current limiting permits start of induction motors and other difficult loads.
- The XUPS includes a two-year limited warranty.
- Compact design.

SPECIFICATION	XUPS-1000-Mini
INPUT	
Nominal voltage & frequency	127 V, 60 Hz
Operating voltage	106 -150 V
Current @96 V & max charging	12.85 A
Circuit breaker	15 A
Surge voltage withstand	ANSI/IEEE: 6 kV, 1.2 x 50 μs / 3k A, 8 x 20 μs; L-N: 450 V L-G: 300 V N-G: 300 V
OUTPUT	
Output power	1050 W
Voltage	127 V ± 8%
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
BATTERY	
Type	NP 18-12
Dimensions & weight: US / Metric	W: 7.1" / 180 mm H: 6.57" / 167 mm D: 3" / 76 mm / 13.7 lbs / 6.2 kg
Ah @20hr rate and bus voltage	17.2 Ah, 48 VDC
Number of batteries	4
Battery circuit breaker	40 A
Temp. range fully charged	-10° to + 60° C / 14° to + 122° F
Battery heater pad BH 5	34 W, two required
Battery backup time vs. load - Actual time may vary due to battery condition and ambient temperature.	27 min
Recharge time	Temperature compensated charger, charge to 90% capacity after full discharge 7 hrs
INDICATORS AND ALARMS	
LED Status indicators on control board	Inverter on: Amber: Low battery: Orange after inverter shut down following low batt. after long outage Fault: Red for overload / red blinks for high temp; AC ok: Green when AC in buck, bypass or boost mode
N / O or N / C contacts	>44 V / <44 V / On / Off, six position terminal block on control board assembly
PHYSICAL	
Dimensions: W H D Inch / mm	16.5" x 20.5" x 9.5" / 419 mm x 521 mm x 241 mm
Aluminum cabinet	Outdoor type, powder coated
Input / output connections	3 position terminal block provided for 3 x 12 AWG, 1/2" holes for conduit connectors
Weights with batteries lbs / kg	110 lbs / 49.8 kg
Mounting option	Wall mounting is standard, optional pole mounting bracket is available
ENVIRONMENTAL	
Operating temperature	-10° to + 50° C / 14° to +122° F
Battery heater option: BH5	-40° to + 4° C / -40° to +122° F
Cooling method	Thermostat controlled exhaust fan
Moisture protection	Conformal coating of electronic boards for moisture resistance
SAFETY	
Standards	UL 1778 Ed: 4, CSA C22.2#107.3, UL 60950-1, UL 60950-22, CSA C22.2#60950-22
WARRANTY	
Warranty	Two-year limited warranty on parts and labor. Manufacturer warranty on batteries.

TSi Power's ongoing product improvement process makes specifications subject to change. Other companies product names herein are for identification purposes only and may be trademarks of their respective companies.

XUPS-1000-Mini system architecture



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