

Outdoor XUPs

Pure sine wave

Wide temperature batteries

Voltage regulation

Outdoor XUPs model

1500A

1500 VA
1050 watts
120 vac
45 min @ 1050W
1.7 hrs @ 525W
-20° to +60°C;
-40° to +60°C
with optional
battery heater

1500B

1500 VA
1050 watts
120 vac
1.5 hrs @ 1050W
3.5 hrs @ 525W
-20° to +60°C;
-40° to +60°C
with optional
battery heater

Outdoor UPS with voltage regulation

TSi Power Outdoor XUPs-1500A/B units are constructed with extreme/wide temperature batteries, and are housed in a weather protected IP44 (NEMA-3R) enclosure. These units offer line-interactive automatic voltage regulation, over/under-voltage protection, surge protection with heavy duty noise filtering, communications capability and optional extended battery backup.

Key Outdoor XUPs benefits

This rugged UPS design, with microprocessor-controlled 20 kHz sine wave inverter and optional conformal coated boards, reduces the number of solid-state devices required for power conversion and is suitable for use in severe outdoor environments.

Outdoor XUPs extreme/wide temperature batteries allow operation of the UPS system over an ambient temperature range of -20°C to +60°C (-4° to +140°F); -40° to +60°C (-40° to +140°F) with optional battery heater. Built-in automatic voltage regulation enables a wide input voltage window within which power is delivered without having to drain or exercise the batteries, thereby ensuring long battery life. A fan exhausts hot air to protect batteries and electronics.

Battery run-times for the OutdoorXUPs-1500A are 45 minutes at 1050 watts load, and 1.7 hours with a 525 watts load; for the OutdoorXUPs-1500B, 1.5 hours at 1050 watts load, and 3.5 hours with a 525 watts load.

How the Outdoor XUPs works

The Outdoor XUPs Series UPS provides automatic voltage regulation with surge protection and noise filtering, as well as overvoltage protection with a threshold of 140 vac, and undervoltage protection with a threshold of 95 vac. Upon a brownout, overvoltage, or loss of power, the XUPs will transfer to battery power in less than 4 milliseconds, enabling uninterrupted operation of computer, telecom, surveillance, signaling or other systems.

LEDs provide visual assessment of UPS status. By unlatching, the front door swings open; inside the cabinet is an array of LED status indicators and a power on/off control switch.



Typical applications

This heavy duty outdoor UPS system is ideal for protection of WiFi/GSM/CDMA/satellite base stations, wireless communications/perimeter surveillance and security/gate control systems, LED traffic light/roadway display systems and industrial remote terminal units (RTUs).

Key Outdoor XUPs features

- Cabinet can be pedestal (ground), pole, or wall mounted
- Full weather outdoor protection IP44 (NEMA-3R) metal cabinet
- Pure sine wave output
- Over/under-voltage protection
- Remote power on/off (optional)
- Wide temperature batteries
- Heavy-duty surge protection and noise filtering
- Automatic voltage regulation
- Status bargraphs array for voltage, load and battery levels
- Two year warranty on electronics, parts and labor; manufacturer's warranty on batteries



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Outdoor XUPs



Outdoor line-interactive UPS with automatic voltage regulation and extreme/wide temperature batteries

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Specification	OutdoorXUPs-1500A	OutdoorXUPs-1500B
Electrical		
Capacity in VA (watts)	1500VA (1050W)	
UPS topology	High efficiency line-interactive with 20 kHz PWM sine wave inverter	
Input		
Nominal voltage	120 volts ac	
Input current	12 amperes maximum @ 120 vac	
Operating voltage	95–140 vac without using batteries	
Operating frequency	47–63Hz	
Output		
Nominal voltage	120 volts ac	
Voltage regulation	115 vac +/-8% upon changes in line or load.	
Crest ratio	3:1	
Output waveform	Pure sine wave, less than 3% THD with linear load.	
Power efficiency	97%, under full load conditions.	
Power on/off switch	On/off rocker style power switch.	
Transfer time	<4 milliseconds	
Batteries	32 ampere hours, 48 vdc Wide temperature -20° to +60°C; -40° to +60°C with optional battery heater; maintenance-free sealed gel-cells.	64 ampere hours, 48 vdc Wide temperature -20° to +60°C; -40° to +60°C with optional battery heater; maintenance-free sealed gel-cells.
Battery backup time	45 minutes @ 1050 watts load. 1.7 hours @ 525 watts load.	1.5 hours @ 1050 watts load. 3.5 hours @ 525 watts load.
Recharge time	8 hours to 90% capacity after full discharge.	16 hours to 90% capacity after full discharge.
SNMP interface for UPS monitoring and automatic shutdown configuration (optional)	Using an external SNMP adapter, the RS-232 signals (from the DB-9 female connector) from the UPS can be converted to 10M/100M fast Ethernet signals (and RJ-45 connection) for external UPS monitoring/configuration capability using Telnet, web browsers, or NMS (most such external devices support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP & SMTP protocols).	
Surge let-through voltages	Test pulse injection: Line-Neutral: Line-Ground: and Neutral-Ground. Combination Wave: L-N: 450V, L-G: 300V, N-G: 300V	
Status indicators	5 LED load level indicator: 0 to 100% of rated load. 5 LED battery charge level indicator from 0 to 100% of rated charge. 3 LED indicators for: in boost, buck or normal mode. 3 LED indicators for: inverter on/off, battery fault, and overload.	
Input/output connections	3 position terminal blocks provided for 3 x 2.5mm ² (14AWG) connections via 25mm (1") liquid-tight cable glands.	
Physical		
Dimensions	761mm(30")wide x 406mm(16")deep x 914mm(36")high	
Weights	77kg(170 lbs)	168kg(370 lbs)
Steel cabinet	Full weather IP44 (NEMA -3R) outdoor design.	
Mounting options	Bolting or banding mountable to monopole via optional 'H' style bracket (steel mounting bands not included), pedestal (ground) or wall mountable. Four wall mounting 'feet' are included.	
Environmental		
Operating temperature, battery heater option and cooling method	-20° to +60°C (-4° to +140°F) ambient air temperature. -40° to +60°C (-40° to +140°F) with optional battery heater. Thermostat controlled exhaust fan.	
Moisture protection (optional)	Optional conformal coating of electronic boards is available for moisture resistance to protect against high humidity environments.	
Warranty		
Warranty	Two year limited warranty, parts and labor. One year battery warranty.	



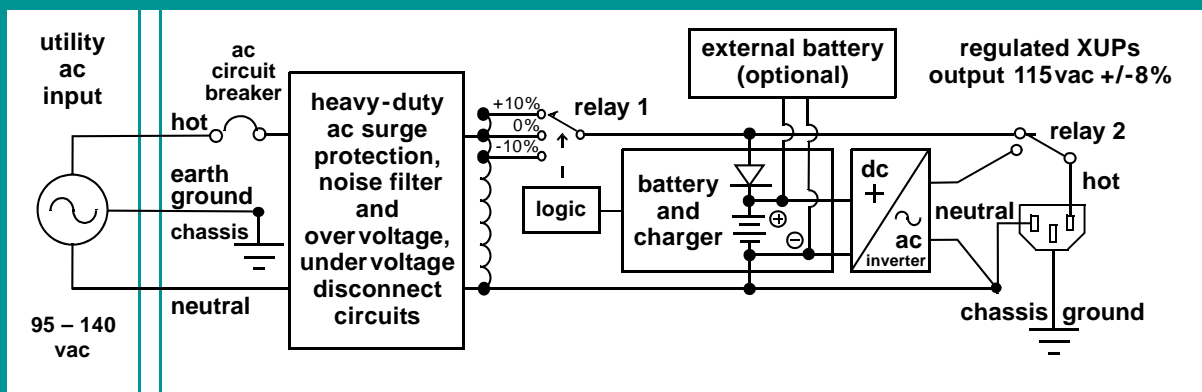
Outdoor
XUPs



optional bandable or
boltable monopole
mounting brackets



OutdoorXUPs-1500A/1500B system architecture



OutdoorXUPs-1500A/1500B at a glance

Heavy-duty outdoor UPS with line-interactive automatic voltage regulation and extreme/wide temperature batteries

- Wide ambient temperature range sealed gel-cell batteries: -20° to +60°C (-4° to +140°F); or -40° to +60°C (-40° to +140°F) with optional thermostat controlled battery heater
- 48 vdc battery bus
- **45 minutes @ 1050 watts**, or 1.7 hours @ 525 watts with **the OutdoorXUPs-1500A**
- **1.5 hours @ 1050 watts**, or 3.5 hours @ 525 watts with **the OutdoorXUPs-1500B**
- 115 vac +/-8% output from 95–140 vac input without going to batteries
- Weather protected IP44 (NEMA-3R) painted metal cabinet
- SNMP compatible (optional)
- Less than 4 ms transfer time
- Microprocessor-controlled 20 kHz PWM sine wave inverter
- Thermostat controlled fan is included



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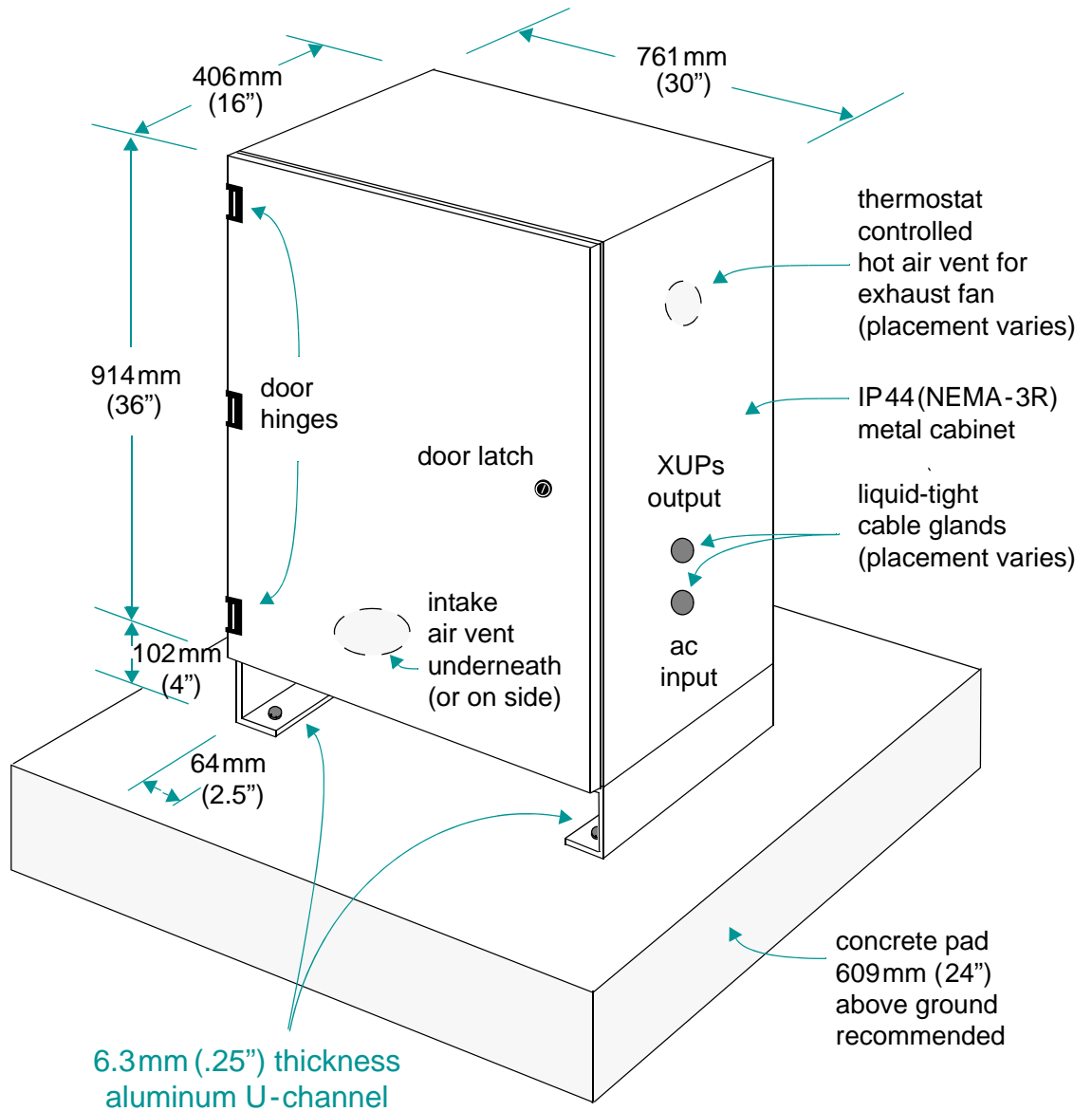
Outdoor XUPs



Mounting on a concrete pad with U-channel

Following is a drawing of a recommended pedestal/concrete pad mounted installation using the TSi Power aluminum U-channel mounting brackets. When ordered with these, the units will come with them already bolted to the bottom of the cabinet. There are four pre-drilled bolt holes that will then allow bolting of the unit to a concrete pad or other mounting surface, such as a Quazite® pad or Unistrut®.

Outdoor XUPs pad mounted



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