

Outdoor XUPS

Pure sine wave

Wide temperature batteries

Voltage regulation

Outdoor UPS with voltage regulation

XUPS Model

3000A-HV

2100 W
230 V
12 min backup

3000A-HV

1050 W
230 V
29 min backup

3000B-HV

2100 W
230 V
44 min backup

3000B-HV

1050 W
230 V
1.47 hr backup

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 272 V and undervoltage protection with a threshold of 192 V. In the event of a brownout, overvoltage or loss of power, the XUPS will transfer to battery power quickly, enabling uninterrupted operation of critical load.



Front/right side view showing Outdoor XUPS-3000AHV with pad-mounting "U" channels and front door latch



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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.
- LED status indicators show voltage, load and battery levels.
- The cabinet can be pad-, pole-, or wall mounted for utmost mounting flexibility.
- Rain tested to NEMA 3R, UL 50E standards.
- Includes a two-year limited warranty.
- The XUPS uses wide temperature, pure lead, gel batteries and internal cooling fan to extend battery life and protect electronic components.
- The XUPS is easy to repair because internal circuit board assemblies are connectorized.
- Precise output current limiting permits start of induction motors and other difficult loads.
- Heavy-duty surge protection and noise filtering protects load and UPS.

SPECIFICATIONS	3000AHV	3000BHV
INPUT		
Nominal voltage	230 V, 50 Hz	
Operating voltage	192 - 272 V without transferring to inverter	
Current @ 96V & max charging	11.65 A	
Circuit breaker	15 A magnetic circuit breaker	
Surge voltage test condition	ANSI/IEEE: 6 kV, 1.2 x 50 μ s / 3 kA, 8 x 20 μ s	
Surge voltage let-through	L-N: 450 V L-G: 300 V N-G: 300 V	
OUTPUT		
Output power	2100 W	
Voltage	230 V \pm 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:	8GU1	8G24
Dimensions and weight	L: 7.71" W: 5.18" H: 7.22" 23 lbs	L: 10.9" W: 6.8" H: 9.88" 52.5 lbs
Ah @20hr rate and bus voltage	31 Ah, 48 VDC	73.6 Ah, 48 VDC
Number of batteries	4	4
Battery circuit breaker	80 A	80 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 BH5	34 W two required	34 W four required
Battery backup time vs. load * Depends on condition of Battery	12 min at 2100 W 29 min at 1050 W	44 min at 2100 W 1.78 hrs at 1050 W
Recharge time	Temperature compensated charger, charge to 90% capacity after full discharge	
	10 hours	16 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: W H D Inch / mm	24"/610 mm 24"/610 mm 12"/ 305 mm	24"/610 mm 24" /610 mm 16.5"/419 mm
Aluminum cabinet	IP54 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	193 / 87.6	331 / 141
Mounting option	Bolting or banding to pole via optional mounting bracket (mounting bands not included), pad (ground) with optional bottom mounted u-channel, or wall mountable via four wall mounting 'feet' which are included standard. Please consult factory.	
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.	

WALL OR POLE MOUNTING

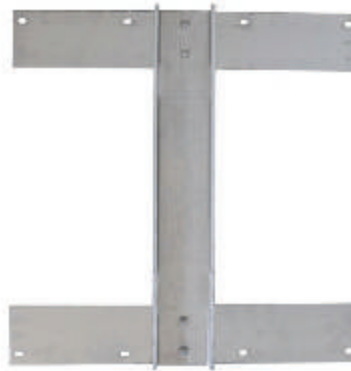
Photo shows the wall mounting configuration using four mounting "feet" that are standard and attached to the cabinet when it is shipped



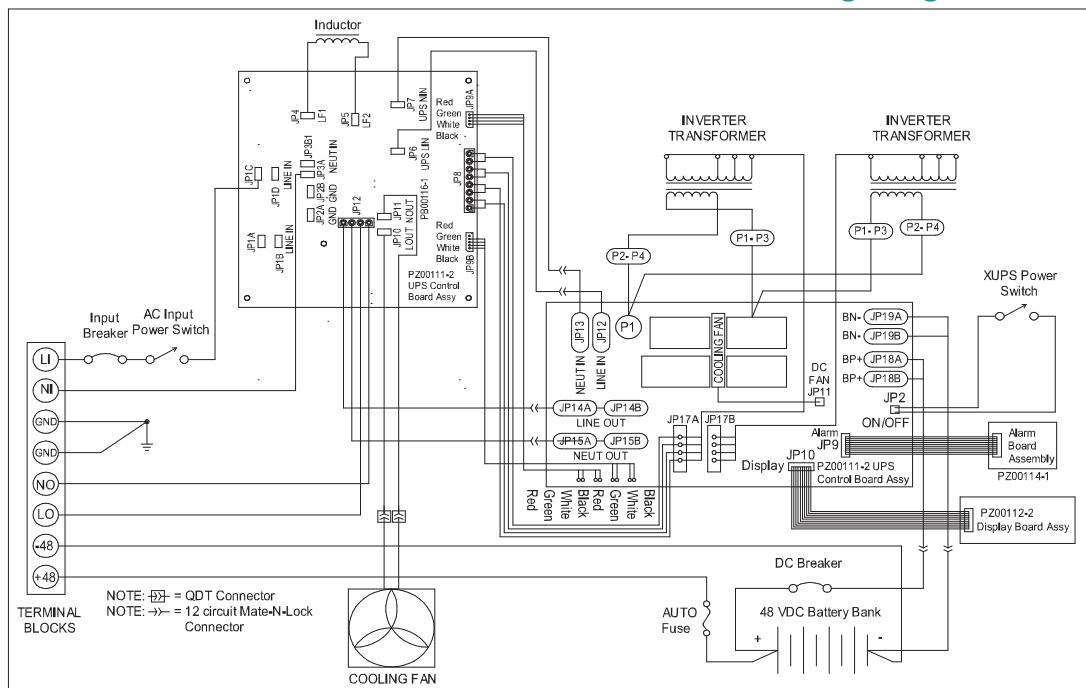
Rear view of "mounting feet" attached to cabinet



Optional pole-mount bracket is attached when it is shipped and can be used to mount cabinet to pole with stainless steel bands



Outdoor XUPS-3000AHV and 3000BHV wiring diagram



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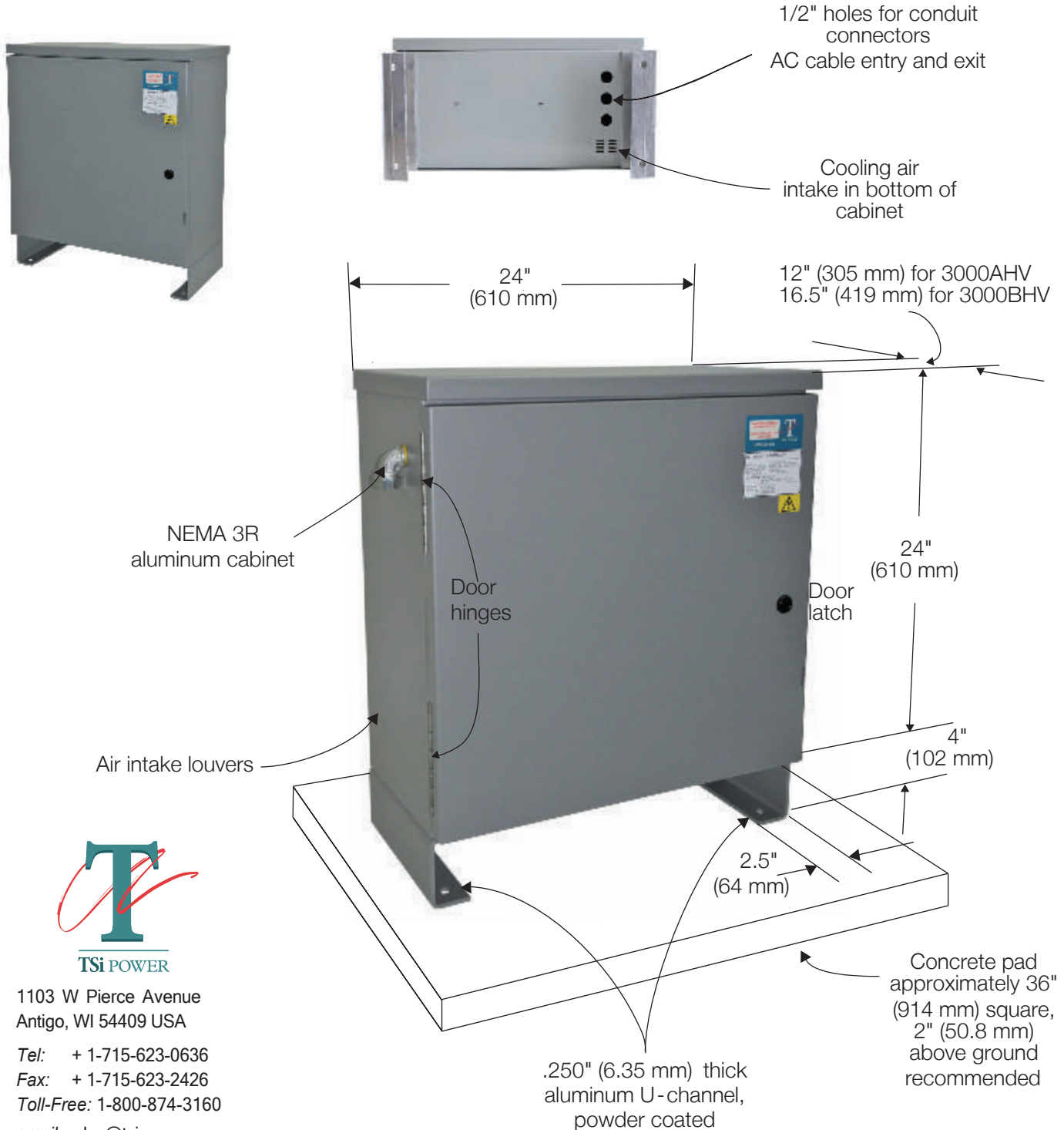
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PAD MOUNTING

Photo below shows a concrete pad mounted installation using the TSi Power painted aluminum U-channel mounting brackets. When ordered with these brackets, the U-channels will come attached. Four pre-punched bolt holes will then allow bolting of the unit to a concrete pad or other mounting surface, such as a Quazite® pad per local practices.



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