



1-3kVA

Capacity range

IP55

Outdoor cabinet

-10~55°C

Cabinet ambient

115-295 V

Input window (±3 V)

40-60 Hz

Input frequency

A/C

Internal Air condition

Outdoor VFI. Thermal-Managed.

Double-conversion online · Integrated air-condition · −10 to +55 °C cabinet ambient (A/C active)

Input 115–295 VAC (±3 V) · 40–60 Hz · IP55 outdoor cabinet

Applications







CCTV



Traffic Lights



Local Area Networks



Telecom



Industrial

ATENCO PowTerra is an outdoor, air-conditioned, double-conversion online UPS that delivers pure sine-wave power at constant frequency and voltage without interruption.

Its cabinet adds heat-insulation with dust-, damp- and waterproof protection, and uses a four-layer layout for fans, UPS + lightning protection + maintenance switch, power distribution, and batteries.

Thermal management is integrated: fans stop below 40 °C to extend service life, and a heater starts below 0 °C for cold conditions. Electrical tolerances are wide—input 115–295 VAC with voltage compensation and 60 Hz—plus PFC technology and a standard bypass mode.





PowTerra Outdoor Online UPS 1-3kVA

Application

• Designed for deployment at urban intersections, remote roadside cabinets, mountain sites, and other harsh locations—including high temperatures (up to +50 °C), low temperatures (down to −10 °C), severe dust, moisture, rain and mist exposure, and areas with very poor power quality (sustained input above 260 V or below 160 V, with abnormal frequency).

Reliable power supply

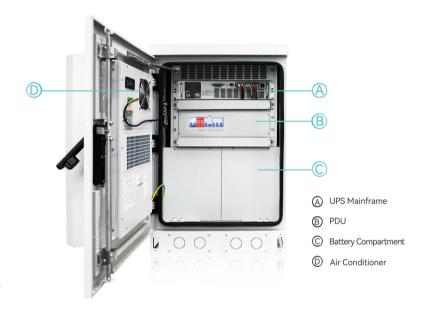
- ATENCO PowTerra Series is a high-performance, integrated outdoor online UPS designed for wireless communication systems—especially microcell/base-station and edge-network sites.
- It delivers continuous, double-conversion protection in a rugged, field-ready design that balances advanced engineering with practical deployment.

Key Features:

- Outdoor intelligent high-frequency online UPS delivering continuous pure-sine AC for communication and network equipment in the field.
- Double-conversion architecture with high-temperature and low-temperature tolerance;
 IP55 sealed cabinet for outdoor environments.
- Wide input window: voltage -45% to +35% of rated and frequency ±10% of rated, suitable for remote areas with severely unstable grids.

High system reliability:

- Microprocessor-controlled SPWM inverter regulates output precisely and reacts quickly to grid/load changes.
- Simplified control architecture (fewer components and loops) improves stability and reduces failure points—raising overall UPS reliability.



Robust Outdoor Structure

- IP55/IP56 dust- and water-resistant enclosure for outdoor deployment.
- · Galvanized steel construction for strong corrosion resistance.
- · Sun protection, thermal insulation, and roof ventilation to limit solar gain and stabilize internal temperature.
- Outdoor-grade powder coating with high-temperature and corrosion resistance.

Environmental Adaptability

- Wide input voltage, avoiding frequent switching to battery power supply due to excessive grid voltage, reducing the probability of battery failure, and adapting to the power environment in poor areas.
- 45–55 Hz input frequency ensures stable operation with fuel generators and meets typical genset requirements.

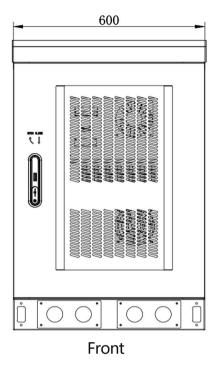
Optional Accessories

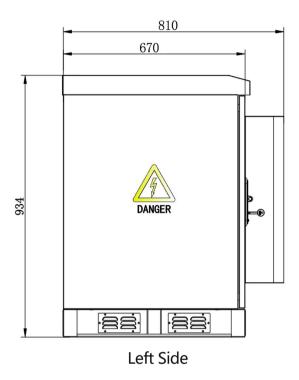
- · Air-conditioner / Heat-exchanger: effectively lowers internal cabinet temperature and improves the enclosure's IP
- protection level.

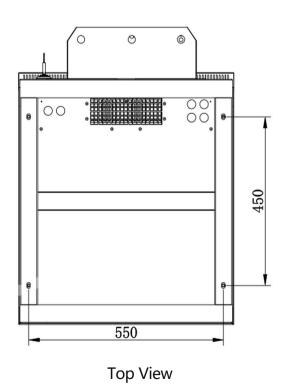
Heater and Temperature Controller: In response to low temperature climate impact on batteries and UPS, we adopt

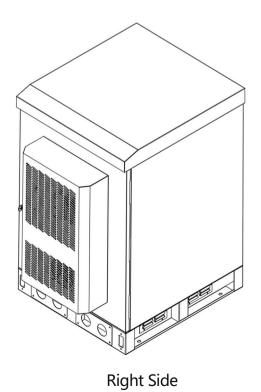


Dimensions











PowTerra Technical Specifications

	PowTerra		
Model	PT-1kVA	PT-2kVA	PT-3kVA
Capacity	1kVA / 0.8kW	2kVA / 1.6kW	3kVA/2.4kW
Nominal Voltage	220/230/240VAC		
Frequency	50Hz / 60Hz		
INPUT			
Voltage range	115-295VAC (±3VAC)		
Frequency range	50Hz (46-54Hz) ; 60Hz (56-64Hz)		
Soft range	0-100% 5 sec		
Power factor	0.98		
OUTPUT			
Voltage precision	220/230/240VAC × (1±2%)VAC		
Frequency precision	50Hz/60Hz ± 0.05Hz		
Power factor	0.8/0.9 (optional), standard 0.8		
Wave distortion	Linear load <3%; non-linear load<6%		
Overload capability	Overload (110%~150%) for 30 seconds, automatically transfer to bypass. When the load is back to normal, it can automatically transfer to online mode.		
Crest factor	3:1		
Transfer time	0 ms (AC to DC)		
DC supply voltage	48VDC		
Charging current	4A/8A (optional)		
BATTERY			
Internal battery capacity	Lead Acid Battery 12VDC 100Ah x 4		
PANEL DISPLAY			
LCD	Load level, Batte	ry lavel, Battery indicator, Utility power, Inverter, Bypass	s, Overload, Fault
COMMUNICATIONS		DOGGO ONNED LIVE (C. II)	
Communicate interface WORK ENVIRONMENT		RS232, SNMP card (optional)	
Temperature		-10°C~60°C	
Humidity	0~95% (Non condensing)		
Storage temperature	-25°C~65°C		
Elevation	<1500m		
COOLING SYSTEM		-1300111	
Cooling fans	AC FAN 220V 2600R x 2		
Cabinet air conditioner	AC 220V 600W		
PHYSICAL CHARACTERISTICS			
Net weight (without battery)	96KGS (Not include battery)		