

High performance Integrated outdoor online UPS

Mammoth series 1-10KVA



► Product snapshot:

Model: 1-10KVA

Nominal voltage: 220/230/240VAC

Nominal frequency: 50/60Hz

Output Power factor: 0.7/0.8 (Optional)

Key Features

- Jet Power Outdoor Intelligent High Frequency Online UPS provide continuous pure sine wave AC power supply for outside communications / network equipment.
- Double-conversion online design, high temperature resistant, anti-cold, sealing level for IP55; With the wide range of input voltage and frequency of input window (-45% +35% rated voltage and $\pm 10\%$ rated frequency).



Reliable power Rich experience

Mammoth series communication marginal network outdoor UPS is special for wireless communication system of outdoor micro cellular base station and design of a high-performance integrated outdoor online uninterrupted power supply system, has the very high technology advancement and practicability.

Application

This UPS is commonly used in the corner of the city, remote roads, mountains, bad environment, such as high temperature (+50 °C) / low temperature (-40 °C), severe dust, moisture, rain, mist erosion, very poor power quality (voltage long-term higher than 260V or less than 160V, frequency abnormal change) in the area.

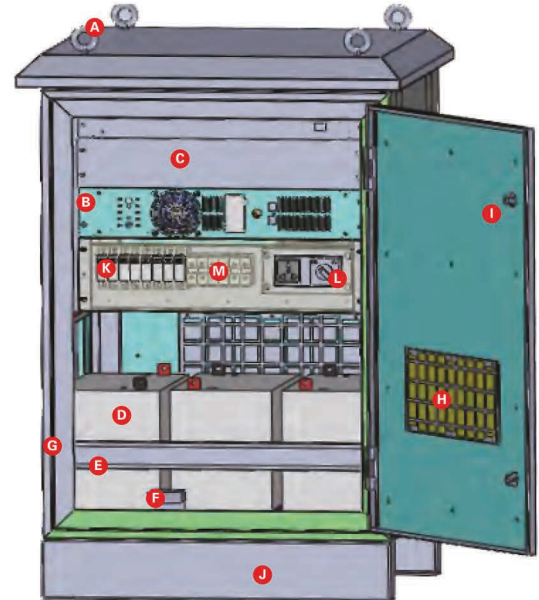
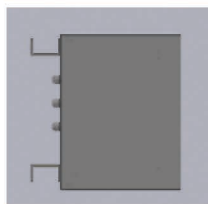
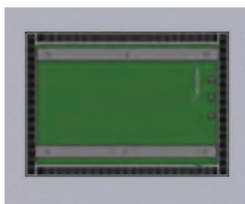
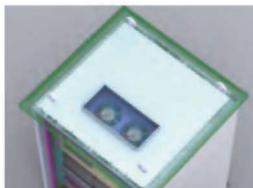
High Reliability of the UPS System

- Using microprocessor control, directly produce high-frequency pulse width modulation wave (SPWM) control of the UPS inverter, to simplify the UPS control circuit, to improve the stability, to have more real-time UPS to quickly respond to changes in the external environment and guarantee the machine's control circuit is more simple and reliable.
- Using digital control techniques, to avoid the traditional analog control temperature drift inherent defects such as hardware parameters, to ensure consistency and reliability of UPS.

Fine dust-proof, water-proof features

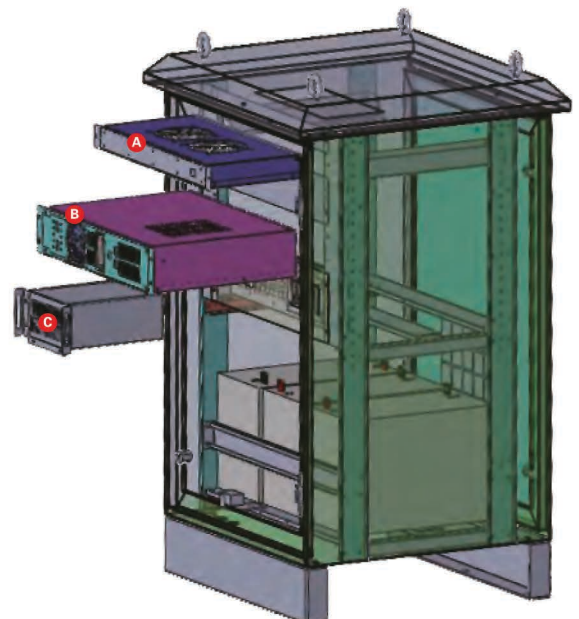
According to the overall standard of design dust-proof and water-proof IP55

- With a sun protection, heat insulation, roof ventilation
- With waterproof and the filtration dust inlet; the cabinet front door shutters with waterproof design, on the back of welding water tank, water tank installed above the net with quick release feature of the dust.



Inner Structure

- A Rings
- B UPS module
- C Reserve 2U space
- D Battery compartment
- E Battery baffle
- F Access Switch
- G Waterproof seal ring
- H Filter
- I dual heat insulation door
- J Installation beam
- K lightning arrester
- L hand-operated switch
- M input/output air-break switch



- A fan module
- B main machine module
- C charger module

Environmental adaptability

- Wide input voltage, avoids frequent switching to battery power because of large power grid voltage, reduce battery failure probability, adapt to the power environment in poor areas.
- Input Frequency Range 45 ~ 55Hz, to ensure the fuel generator can access all kinds of stability to meet user requirements for use on the oil machine.



Optional accessories

Heat exchanger

The environment which require higher IP level, we use heat exchanger to effectively reduce the temperature of box inside and improve IP protection level .



Heater and temperature controller

In response to low temperature climate impact of batteries and UPS, we adopt ajustable heating device to ensure the UPS and battery life of normal use.



UPS Power Solutions Expert

Mammoth series Technical Specifications

Model	Mammoth 1-10KVA					
	1KVA	2KVA	3KVA	6KVA	10KVA	
Capacity	1 KVA/0.7KW	2KVA/1.4KW	3KVA/2.1KW	6KVA/4.2KW	10KVA/7KW	
Nominal Voltage	220/230/240VAC					
Nominal Frequency	50Hz/60Hz					
Input						
Voltage Range	115-295VAC (± 3 VAC)		176—297VAC (± 3 VAC)			
Frequency Precision	50HZ: (46-54HZ) ; 60HZ: (56HZ-64HZ)					
Soft Start	0—100% 5sec					
Power Factor	0.98					
Output						
Voltage Precision	220/230/240X (1 \pm 2%)VAC					
Frequency Precision	50/60HZ \pm 0.05Hz					
Power Factor	0.7/0.8 (optional) standard 0.7					
Wave Distortion	Linear load <3% Non-linear load <6%					
Overload Capability	Overload (110% -150%) for 30 seconds, then automatically transfers to bypass. When load is normal, it can automatically transfer to normal mode					
Crest Factor	3 : 1					
Transfer Time	0ms (AC to DC)					
Battery						
DC Supply Voltage	36VDC	96VDC	96VDC	240VDC	240VDC	
Charge Current	4A/8A (optional)	4A/8A (optional)	4A/8A (optional)	4.2A	4.2A	
Internal Battery Capacity	(38/65/80/100AH) optional					
Panel Display						
LCD	Display input and output voltage, frequency, battery voltage, battery capacity, load percentage					
Communications						
Communicate interface	RS232> SNMP card (optional)					
Work Environment						
Temperature	-40—55°C					
Humidity	0—95% (Non-condensing)					
Storage Temperature	-25°C —55°C					
Elevation	< 1500m					
Physical Characteristics						
Weight (KG)	N.W	85	125	125	150	155
Dimensions (Wx D x H)mm		613x640x954	650x753x1227	650x753x1227	940x940x1770	940x940x1770