

**Model: 1 - 10KVA**  
**Nominal Voltage: 220/230/240VAC**  
**Nominal Frequency: 50/60Hz**  
**Output Power factor: 0.9**



Alston Systems, Integrated online 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 uninterruptured power supply system, has the very high technology advancement and practicability. It's 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), in many remote areas of China after a severe test of the grid.

## FEATURES

### 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.

### 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 40-70Hz, to ensure the fuel generator can access all kinds of stability to meet user requirements for use on the oil machine.

### Security Features

- Solid Chassis box
- Fixed base case

**APPLICATIONS**

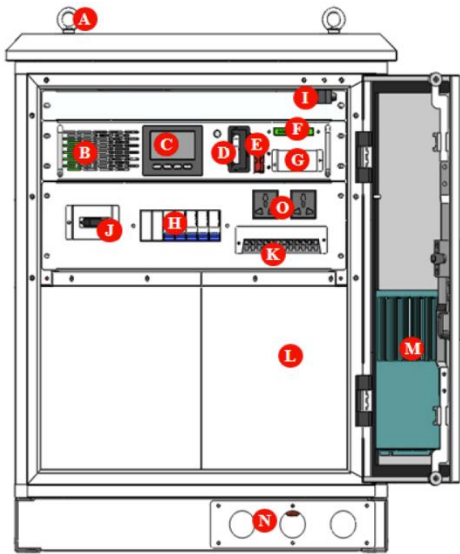
- Corner of the city
- Remote roads, Mountains
- Bad environment, such as high temperature (+50 °C)/low temperature (-40°C)
- Severe dust, Moisture, Rain & Erosion
- Very poor Power quality areas.

**STANDARD**

GB/IEC Regulation:

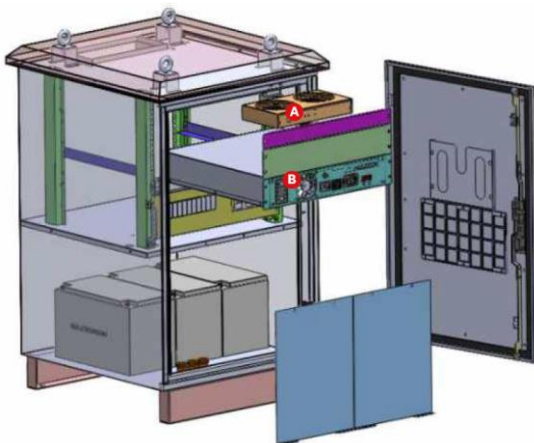
- EMC: GB7260.2/IEC62040-2  
GB/17626.2-5/IEC61000-4-2 - 5
- SAFETY: GB4943

**FRONT PANEL VIEW**



- A Rings
- B Air flue
- C LCD display screen
- D SNMP card port
- E Access switch Battery input
- F Dry contact
- G Input terminal
- H Breaker
- I Access switch
- J Maintenance switch
- K Output terminal
- L Battery cabinet
- M Waterproof filter
- N Wire input/output port
- O Output socket

**3D CROSS-SECTIONAL VIEW**



- A fan module
- B main machine module

**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 & Temperature Controller:**

To reduce low temperature climate impact to batteries and UPS, we adopt adjustable heating device to ensure the UPS and battery life of normal use.



**PARAMETERS TABLE OF INTEGRATED ONLINE OUTDOOR UPS (1 - 10KVA)**

Model No	901140012	901140022	901140032	901140062	901140102
Capacity	1KVA/ 0.9KW	2KVA/ 1.8KW	3KVA/ 2.7KW	6KVA/ 5.4KW	10KVA/ 9KW
Nominal Voltage	220/230/240VAC				
Nominal Frequency	50Hz/60Hz				
<b>Input</b>					
Voltage	115-300VAC (±3VAC)			120-275VAC (±3VAC)	
Frequency Range	40-70Hz				
Power Factor	0.98				
<b>Output</b>					
Voltage Precision	220/230/240x (1±2%)VAC				
Frequency Precision	50/60Hz ± 0.05 Hz				
Power Factor	0.9				
THDV	Linear load < 3% Non-linear load < 6%			Linear load < 2% Non-linear load < 4%	
Overload Capability	110%-150% for 47-25 sec; 150-200% for 25-300ms; >200% for 0.2s			105%-125% for 1 min; 125-150% for 30s; >150% for 0.5s	
Crest Factor	3:1				
Transfer Time	0ms (AC to DC)				
<b>Battery</b>					
DC supply voltage	24/36/48VDC	48/72VDC	96VDC	192VDC	192VDC
Charge Current	6A	6A	6A	4.2A	4.2A
Internal Battery Capacity	(38/65/80/100AH) optional				
Panel Display (LCD)	Load level/Battery level, Battery indicator, Utility power, Inverter, Bypass, Overload, Fault				
<b>Communications</b>					
Communicate interface	RS232, SNMP card ( optional)				
<b>Work Environment</b>					
Protection level	IP55				
Temperature	-40~55°C				
Humidity	0~95% ( Non- condensing)				
Storage Temperature	-25°C ~ 55°C				
Operation Altitude	< 1500m				
<b>Physical characteristics</b>					
Net Weight (KG)	85	125	125	150	155
Dimensions ( W x D x H) mm	620*450*805	620*500*1085	620*600*1085	650*900*1600	650*900*1600

## ORDERING INFORMATION

Part No	Description
901140012	Alston Systems, <b>1KVA Outdoor Online UPS</b> , 220/230/240VAC, 50/60HZ, IP 55 rating, 0.9 PF, Dimension 620 x 450 x 805, Grey.
901140022	Alston Systems, <b>2KVA Outdoor Online UPS</b> , 220/230/240VAC, 50/60HZ, IP 55 rating, 0.9 PF, Dimension 620 x 500 x 1085, Grey.
901140032	Alston Systems, <b>3KVA Outdoor Online UPS</b> , 220/230/240VAC, 50/60HZ, IP 55 rating, 0.9 PF, Dimension 620 x 600 x 1085, Grey.
901140062	Alston Systems, <b>6KVA Outdoor Online UPS</b> , 220/230/240VAC, 50/60HZ, IP 55 rating, 0.9 PF, Dimension 650 x 900 x 1600, Grey.
901140102	Alston Systems, <b>10KVA Outdoor Online UPS</b> , 220/230/240VAC, 50/60HZ, IP 55 rating, 0.9 PF, Dimension 650 x 900 x 1600, Grey.

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*\*Product specifications and availability are subject to change without notice.*