



LOW FREQUENCY UPS  
HIGH FREQUENCY UPS  
OUTDOOR UPS  
RACKMOUNT UPS  
POWER RANGE : 1-2400KVA  
HIGHEST TECHNOLOGY ON UPS



**HEAVY DUTY UPS SYSTEMS**  
**YOUR POWER CONTINUITY IS OUR BREATH**

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# LM30E HIGH PERFORMANCE INTEGRATED OUTDOOR ONLINE UPS

1-10KVA(1 Ph in/1Ph out)



## ► Product snapshot:

Model: 1-10KVA

Nominal voltage: 220/230/240VAC

Nominal frequency: 50/60Hz

Output Power factor: 0.7/0.8 (Optional)

## Key Features

- 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), in many remote areas after a severe test of the grid.



## Reliable power Rich experience

LM30E 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.

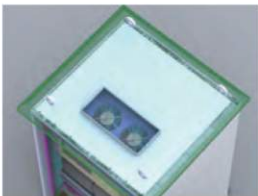
## High Reliability of the UPS System

- 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

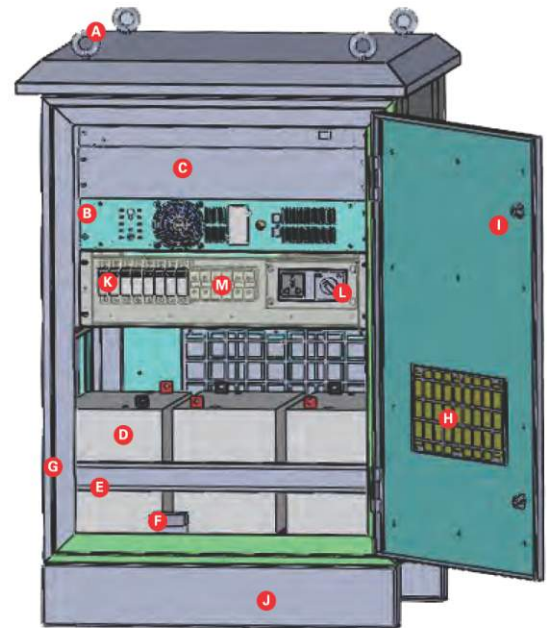
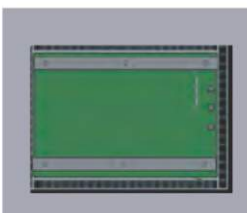
According to the overall standard of design dust-proof and water-proof IP55

- 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.



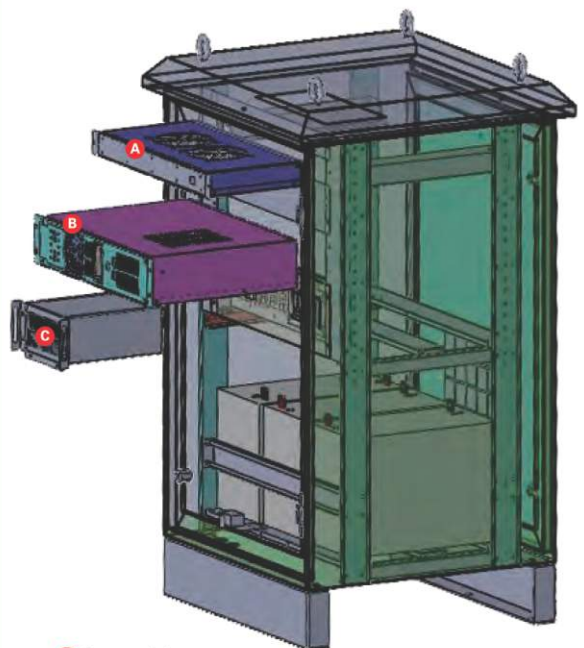
## Security features

- Solid chassis box
- Fixed base case



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.



## LM30E SERIES TECHNICAL SPECIFICATIONS

Model		LM30E 1-10KVA				
		1KVA	2KVA	3KVA	6KVA	10KVA
Capacity	1KVA/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 (±3VAC)			176~297VAC (±3VAC)		
Frequency Range	50HZ: (46~54HZ) ; 60HZ: (56HZ~64HZ)					
Soft Start	0~100% 5sec					
Power Factor	0.98					
Output						
Voltage Precision	220/230/240X (1±2%)VAC					
Frequency Precision	50/60HZ±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 transfer 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	0~40℃					
Humidity	0~95% (Non-condensing)					
Storage Temperature	-25℃~55℃					
Elevation	< 1500m					
Physical Characteristics						
Weight (KG)	N.W	85	125	125	150	155
Dimensions ( W×D×H )mm	640×900×900		640×900×1185	640 ×900×1185	940×940×1770	940×940×1770

STANDARD: Conform to GB/IEC regulation: EMC:GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.