

# LBS 7-SERIES

**10-200 kVA  
UPS ONLINE  
DOUBLE CONVERSION**



kW = kVA

**96%**  
Efficiency



PF=  
**1.0**



**3:3**  
PHASE

**DETAILS**

3 Phase Online UPS (10-200kVA).  
The LBS 7 series 3-Phase in, 3-Phase out UPS uses advanced 3 level inverter technology and digital technology for full interconnection and has advantages such high efficiency, high power density and occupies only a small amount of floor space. It provides safe, stable, clean, and environmentally friendly power to loads and can provide safe and reliable comprehensive protection to data centers, IT server rooms, precision instruments and others.

**APPLICATIONS**

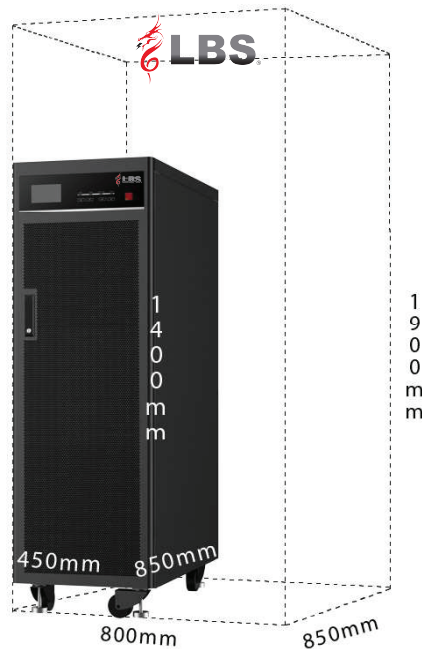


- **3 LEVEL IGBT TECHNOLOGY UPS;**
- **MODULAR DESIGN;**
- **UPGRADABLE ON SITE (50-200KVA);**
- **96% EFFICIENCY;**
- **OUTPUT POWER FACTOR 1;**
- **FULLY SETTABLE FROM DISPLAY ON SITE;**
- **SELF-CLEANING FUNCTION;**
- **CAPTURE WAVE-FORM GRAPHICS ON DISPLAY (BLACK BOX);**
- **HOT-SWAPPABLE BATTERY PACKS.**



## ECO-ENERGY SPACE SAVER

High power density, 200kVA and occupies only 0.54 square meters of area; saves a lot of surface space in the client's server room while having an environmentally friendly design. It uses the latest 3 level IGBT rectifying technology and its input power factor approaches unit power factor and improves energy efficiency to up to 96%.

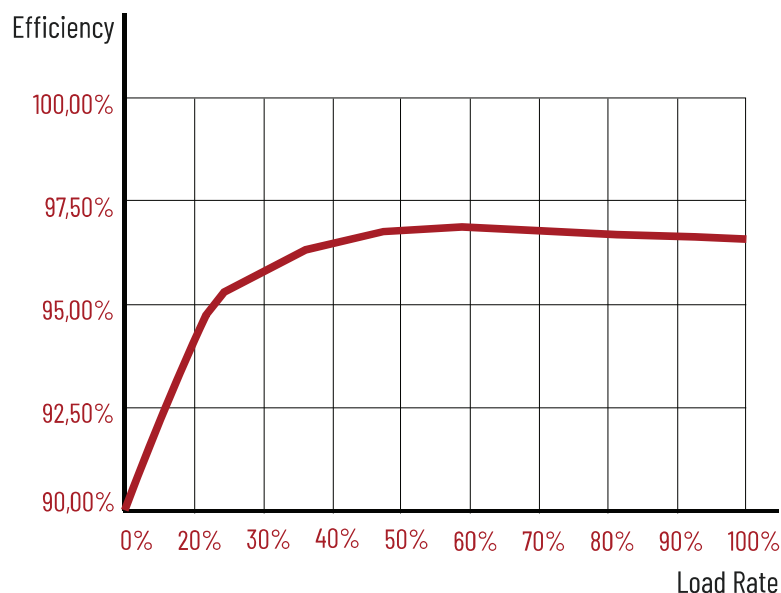


Compare to normal size in the market

## MAXIMUM POWER

 Full Power

The LBS 7 Series allow 100% three phase unbalanced load. With a power factor equal to 1, significant savings are made on energy consumption and equipment investments costs so cost effectiveness increases.



## **LOWER TOTAL COST**

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The system has a touch screen with powerful functions, dual button on/off switching, user-friendly interface, easy to operate protection functions and warning alarms. It also has complete input over voltage, input under voltage, over load, short circuit, and component failure warning to reduce client operation and maintenance costs and has smart waveform record for failure that can record key simulations and digital signals a few cycles before and after a fault occurs to make it much easier for equipment maintenance and troubleshooting. This effectively improves system maintenance time efficiency. The 40 fan design further improves overall system efficiency and makes operation and maintenance management more convenient and improves overall operation reliability.

## **SAVINGS CHEAP**

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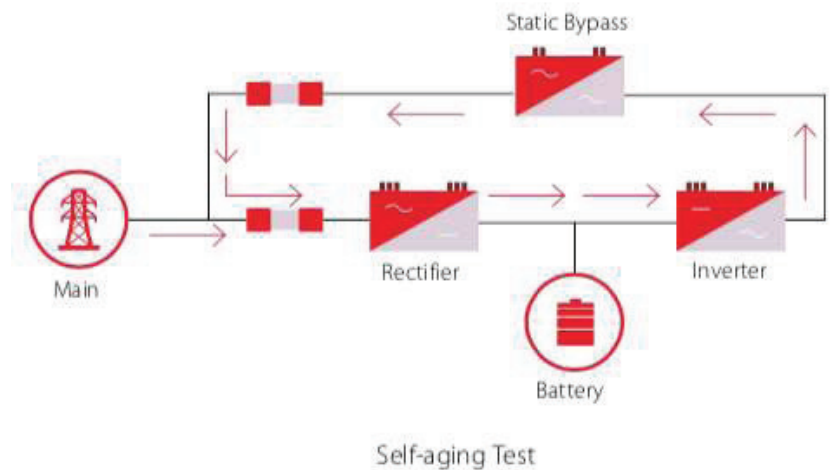
- 120kVA/120kW Full load running one day(24h) compare with industrial efficiency 92%;
- Day saving energy:  $(120\text{kVA} \times 1.0 \times 96\% - 120\text{kVA} \times 0.8 \times 92\%) \times 24\text{h} = 645.12 \text{ kWh}$ ;
- Day saving money:  $645.12 \times 0,1 \text{ Euro/kWh} = 64.512 \text{ Euro}$  (hypothesis 0.1 Euro/kWh);
- Each year saving energy:  $645.12 \times 365 = 235468.8 \text{ kWh}$ ;
- Each year saving money:  $0.1 \times 235468.8 = 23546.88 \text{ Euro}$ .



**€ 23.546,88 PER YEAR**

## SMARTER OPERATION

Smarter Operation and Maintenance Management  
Modular design allow operations of maintenance and reparations to be quicker and safer.  
Replacing Power Module of UPS LBS 7 has never been so easy and fast, in fact the average time to replace faulty component is less than 30 minutes, reducing all costs of reparations by 50%.  
Full digital interconnection, advanced dual DSP control technology, fast fault self-diagnosis, full redundancy coverage, no more single point of failure, and good system compatibility ensures reliable power supply to the load from an ultra-wide range of input from the power grid, while the smart generator control enables flexible adaptation to various complex power grid environments.



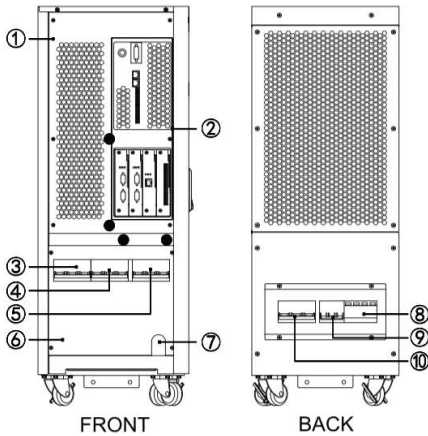
## SELF-CLEANING FUNCTION



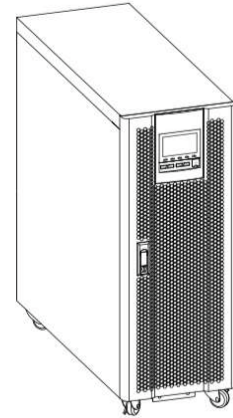
SELF DE-DUSTING MODE

The new self de-dusting mode periodically blows all the dust out of the power module in order to reduce the risk of PCB failure due to dust corrosion by more than 30%.  
Self de-dusting mode can be set daily, weekly or periodically at user's convenience.

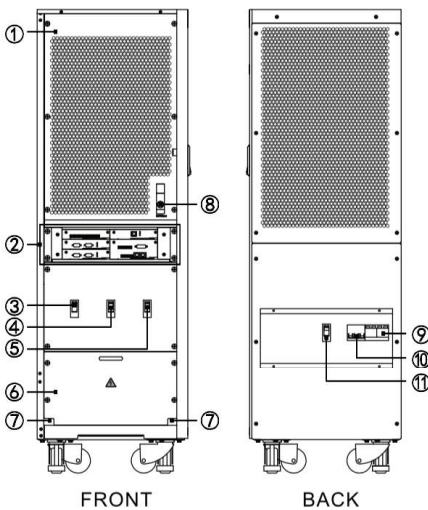
## LBS Series 7 10-40KVA



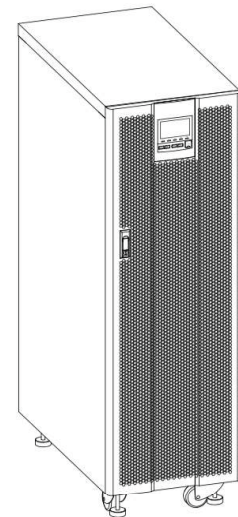
1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



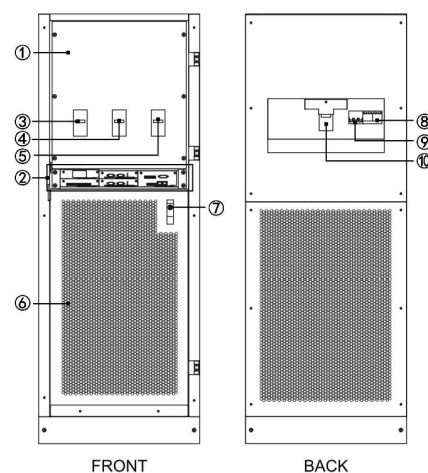
## LBS Series 7 50-120KVA



1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. BATTERY SLOW START BOTTON;
9. SURGE PROTECTION DEVICE (OPTIONAL);
10. SURGE PROTECTION BREAKER (OPTIONAL);
11. MAINTENANCE BUPASS BREAKER.



## LBS Series 7 160-200KVA

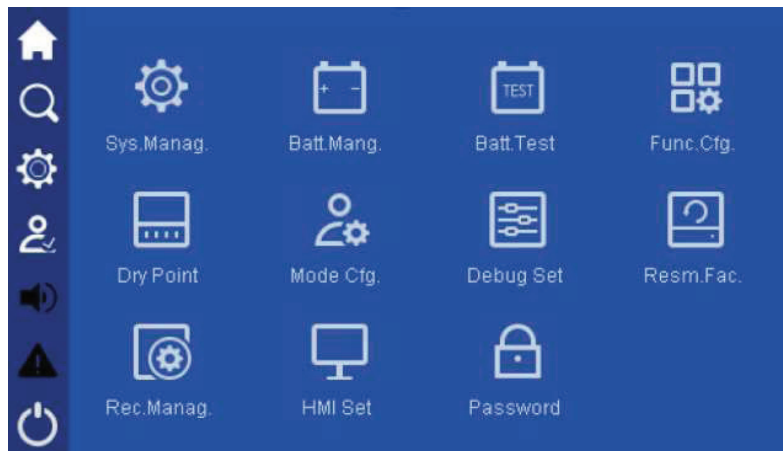


1. WIRING COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. BOTTOM COVER PLATE;
7. BOTTOM START BUTTON;
8. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



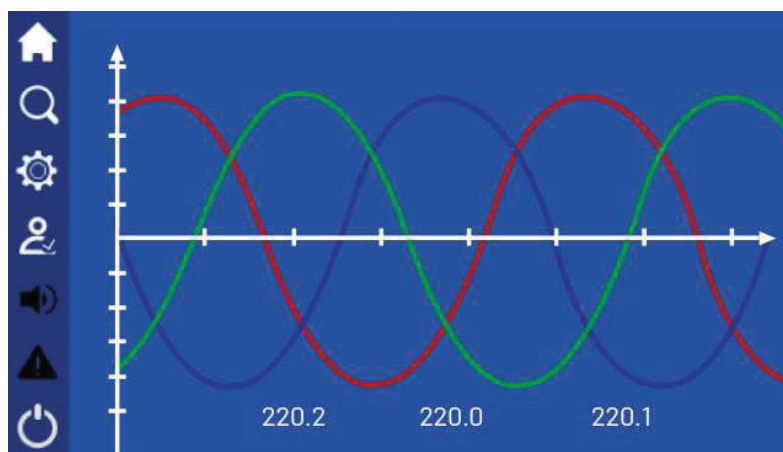
# DISPLAY SETTABLE

UPS 100% Fully settable from display on site  
Thank to advanced computerized display, LBS7 Series UPS is completely configurable from display directly on site without the need of PC or specialized software.



# BLACK BOX

Capture wave-form graphics on display (black box)  
The operating system incorporated in the computerized display is able to analyze and record waveforms of each individual components of the UPS.  
Through the computerized colored display it is possible to show waveforms of each phase, thus simplifying the localized identification of problems or distortions of any kind inside or outside the apparatus.



**3 YEARS WARRANTY UPS**



**BEST PRODUCT  
3PHASE UPS 2019**



## TECHNICAL SPECIFICATIONS

MODELS	LBS 7010	LBS 7020	LBS 7030	LBS 7040
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### INPUT

VOLTAGE (VAC)	380/400/415 (138~485 L-L)			
FREQUENCY (HZ)	40~70			
BYPASS VOLTAGE (VAC)	380/400/415: -20%~+15%			
POWER FACTOR	≥0.99			
THDI	≤3%			
PHASE	3φ4W+PE			

### OUTPUT

CAPACITY (KVA)	10	20	30	40
POWER FACTOR	1			
VOLTAGE (VAC)	L - N: 220/230/240±1% L - L: 380/400/415±1%			
FREQUENCY (HZ)	50/60±0.1 (battery mode)			
PHASE	3φ4W+PE			
UNBALANCE 3-PHASE VOLTAGE STABILIZATION WITH FULL LOAD	≤2%			
WAVEFORM	Pure sine wave, THD<1% at linear			
EFFICIENCY	up to 96%			
OVERLOAD	105%~115% load for 60mins; 116%~130% load for 10mins; 131%~150% load for 1min; >150% load for 200ms			

### BATTERY

BATTERY VOLTAGE (VDC)	±192/±216 (±180/±204/±216/±228/±240 settable for long backup type)			
BATT TYPE	32×9AH 12V / External	36×9AH 12V / External	72×9AH 12V / External	72×9AH 12V / External
CHARGING CURRENT (A)	1-10			

### OTHERS

COMMUNICATION INTERFACE	RS485, MODBUS, dry contacts (RS232, SNMP, expend dry contact card are optional in slot)			
DISPLAY	Touch screen+LED			
ALARM	AC input abnormal, low battery, overload, failure			
PROTECTION	Output short-circuit, overload, over temperature, battery low voltage, output over/low voltage			
NOISE (DB)	<65			
WORKIN TEMPERATURE (°C)	0~40			
RELATIVE HUMIDITY	0~95%, no condensation			
DIMENSION (W×D×H)(MM)	320×840×1030 / 320×840×867		320×840×1400 / 320×840×867	
WEIGHT (KG)	240 / 120	250 / 120	350 / 120	

## TECHNICAL SPECIFICATIONS

MODELS	LBS 7050	LBS 7080	LBS 7100	LBS 7120	LBS 7160	LBS 7200
<b>INPUT</b>						
VOLTAGE (VAC)	380/400/415 (138~485 L-L)					
FREQUENCY (HZ)	40~70					
BYPASS VOLTAGE (VAC)	380/400/415: -20%~+15%					
POWER FACTOR	≥0.99					
THDI	≤3%					
PHASE	3φ4W+PE					
<b>OUTPUT</b>						
CAPACITY (KVA)	50	80	100	120	160	200
POWER FACTOR	1					
VOLTAGE (VAC)	L - N: 220/230/240±1% L - L: 380/400/415±1%					
FREQUENCY (HZ)	50/60±0.1 (battery mode)					
PHASE	3φ4W+PE					
UNBALANCE 3-PHASE VOLTAGE STABILIZATION WITH FULL LOAD	≤2%					
WAVEFORM	Pure sine wave, THD<1% at linear					
EFFICIENCY	up to 96%					
OVERLOAD	105%~115% load for 60mins; 116%~130% load for 10mins; 131%~150% load for 1min; >150% load for 200ms					
<b>BATTERIES</b>						
BATTERY VOLTAGE (VDC)	±192/±216 (±180/±204/±216/±228/±240 settable for long backup type)					
BATT TYPE	External					
CHARGING CURRENT (A)	1-30			1-40		
<b>OTHERS</b>						
COMMUNICATION INTERFACE	RS485, MODBUS, dry contacts (RS232, SNMP, expend dry contact card are optional in slot)					
DISPLAY	Touch screen+LED					
ALARM	AC input abnormal, low battery, overload, failure					
PROTECTION	Output short-circuit, overload, over temperature, battery low voltage, output over/low voltage					
NOISE (DB)	<65					
WORKIN TEMPERATURE (°C)	0~40					
RELATIVE HUMIDITY	0~95%, no condensation					
DIMENSION (W×D×H)(MM)	450×840×1400			600×900×1600		
WEIGHT (KG)	180	210	242	320	350	



## **CONTACT**



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