

RUPSOL Series LBH

Series LBH Online UPS(10-20KVA 3/1 Phase)

SYSTEM INTRODUCTION

LBH Series is a digital controlled online double conversion, 3/1 Phase pure sine wave online UPS, with smart design and high reliable, this system overall efficiency > 94%, LBH-T series can be defined as a high cost effective and reliability and energy saving green power.



SYSTEM FEATURES

■ High Performance Index

- Latest HF switching power supply rectifier and PFC Technology. Input Power Factor 0.99, THDI ≤ 5%
- Wide Input Range from 150~500Vac (Phase to Phase) or 90-300Vac (Phase to Neutral) on full load.
- Latest IGBT technology to achieve high overall efficiency up to 94%. Compatible with 220/230/240V and 50/60 Hz Grid Supply Systems.
- Powerful overload ability with output short circuit protection technology: 125% overload for 10 minutes, > 150% overload for 0.5 seconds.
- Can be connected with all kinds of generators to save customers costs.
- Intelligent temperature compensator and low wave charger can extend battery lifetime.
- Intuitive dual LCD and LED display panels, which comprehensively and intuitively reflect the state of powers system statuses, parameters, and other information. Users can modify and operate based on individual needs on these friendly displays.
- 19" inch Rack Mount structure design. It can be compatible with standard communication cabinet to greatly save data room spaces.
- Reliable Design made with strong Glass fiber base (FR4) double side PCB, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating, avoid dust accumulation, improve resistant to corrosion.
- Versatile Input Phase Configuration. System works with 1 OR 3-phases mains input, without complex setting or power derating.

■ Safe and Reliable

- LBH Series adapts DSP technology to control UPS all processes (including Parallel function) to increase system reliability.
- LBH Series adapts sensitive peak current protection circuit to protect the system from damages due to short-circuit, cold load impacts.
- 90% of system components are from international famous brands. Systems will fully tested for 24 hours before leaving the factory.

■ Rich Optional Accessories

- LBH Series can use SNMP Network Adapter, RS485/Dry Contact, USB port, and EPO function to build up a remote control and monitoring system.

Compatible applications/loads



► SPECIFICATION

Model	LBH100L31/BH100L31-RM	LBH150L31/BH150L31-RM	LBH200L31/BH200L31-RM
Capacity	10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Host Machine Specification			
UPS Structure	Double Conversion High Frequency Online		
Appearance	Tower or Rack-Mount Type		
Overall Efficiency (AC-AC)	> 94%		
Noise(In 2 meters)	< 50dB		
Working Temp	0℃ - +40℃		
Storage Temp	-20 ~60℃(Without BATs)		
Humidity	<95% Non Condensing		
Safety Standard	GB/T14715		
EMC Standard	EN 50091/EN62040-1/2		
Protections	Overload, Short-Circuit, Over Temp., Utility PowerVoltage High/low, BAT Voltage High/low		
Parallel Redundancy	None		
Generator Compatibility	Available		
DC Start	Available		
Manual Maintenance Bypass	Optional Accessory		
Display	LCD display: Input/ Output /bypass Status, ECO Mode, charging status, load status, Rectifier status, INV Temp		
Alarm	Auto		
Mute	Auto		
Rectifier Specification			
Input Voltage Range	Phase to Neutral 90~300VAC; Phase to Phase 150~500VAC		
Input Frequency Range	40-70Hz(Auto Tracking)		
Input PF	0.99		
THDI	<2% (Linear Load); <7% (Non-Linear Load);		
Output Specification			
Output Voltage	220/230/240Vac Adjustable		
Output PF	0.9 (No Lag)		
Output Voltage Regulation	220Vac±1%(Static Load); 220Vac±2%(50-0% Sudden Change); 220Vac±3%(100-0% Sudden Change)		
Output Freq. (Online Mode)	When 46Hz < Input Freq. <= 54Hz , Input Freq. = Output Freq. ; When Input Freq. <46Hz or >54Hz, Locked at 50Hz		
Output Freq. (BAT Mode)	50/60Hz± 0.2%		
Output Waveform	Pure Sine wave		
Distortion	<2%(Linear Full Load), < 7%(100% Non-Linear Load)		
Overload	10Min@105%~125%Rated Load; 60Sec.@125%~150%Rated Load		
Crest Ratio	0.5Sec.@>150%Rated Load		
Efficiency	3 : 1		
Short-Circuit	>94%		
Output Abnormal	Circuit Auto Protection, Output Voltage/Current 0		
Noise Suppression	INV Output Auto-Locked Protection		
BAT Low	EMI/RFI Wavefilter		
Dynamic Response	Shutdown Protection		
Auto-Restart	3% at full load, recovering in 20-60ms		
Software Control	Available		
Bypass Specification			
Static Bypass Transfer Time	0ms		
StaticBypassRange	80Vac± 5%~285Vac±5%		
Bypass -> INV Transfer Time	2ms		
Battery Specification			
Type	Sealed Lead Acid Maintenance Free		
Ext. Model Rate Volts/Units	192-240Vdc	192-240Vdc	192-240Vdc
Ext. Model Charging Current	4A	4A	4A
Communication Specification			
Communication Port	Rs232 (Std.); /SNMP/RS485/ Dry Contact (Optional Accessory)		
Remote Software	Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control		
Physical Parameters			
Tower Size mm(W×D×H)	190×530×340	240×550×530	240×550×530
Net Weight Kg	15	25.9	26.1
Size mm(RM, W×D×H)	440×500×131/3U	440×500×175/4U	440×500×175/4U
Net Weight Kg	14.2	24.5	25.1

Note: Specification are subject to change without further notice.