

RUPSOL Series LBH

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

SYSTEM INTRODUCTION

BH-T Series is a digital controlled online double conversion, 1/1 Phase pure sine wave online UPS, with smart design and high reliable, this system overall efficiency > 90%, BH-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 ≤ 3.5%
- Wide Input Range from 160~300Vac on full load (100% Load, If Load is below 50%, it can be reached even equal or lower than 115Vac)
- Latest IGBT technology to achieve high overall efficiency up to 90%. Compatible with 220/230/240V and 50/60 Hz Grid Supply Systems.
- Powerful overload ability with output short circuit protection technology: 1-3 KVA: 120% overloads for 1 minute. 150% for 60ms transfer to bypass and alarm.
- 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.

■ 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	LBH10S	LBHIOL	LBH20S	LBH20L	LBH30S	LBH30L				
Capacity	1 KVA/0.8KW		2KVA/1.6KW		3KVA/2.4KW					
Host Machine Specification										
UPS Structure	Double Conversion High Frequency Online									
Appearance	Tower or Rack-Mount Type									
Overall Efficiency (AC-AC)	> 90%									
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 Power Voltage High/low, BAT Voltage High/low									
Parallel Redundancy	None									
Generator Compatibility	Available									
DC Start	Available									
Manual Maintenance Bypass	None									
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	100% Load:160~300Vac, 50% Load:90~300Vac									
Input Frequency Range	40-70Hz(Auto Tracking)									
Input PF	0.99									
THDI	<3% (Linear Load); <5% (Non-Linear Load);									
Output Specification										
Output Voltage	220/230/240Vac Adjustable									
Output PF	0.8/0.9 (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)	50Hz± 0.2%									
Output Waveform	Pure Sine wave									
Distortion	<2%(Linear Full Load), < 7%(100% Non-Linear Load)									
Overload	> 125%: 30 Seconds									
	> 150%: 0.5 Seconds transfer to bypass									
Crest Ratio	3 : 1									
Efficiency	>90%									
Short-Circuit	Circuit Auto Protection, Output Voltage/Current 0									
Output Abnormal	INV Output Auto-Locked Protection									
Noise Suppression	EMI/RFI Wave filter									
BAT Low	Shutdown Protection									
Dynamic Response	3% at full load, recovering in 20ms									
Auto-Restart	Available									
Software Control	Available									
Bypass Specification										
Static Bypass Transfer Time	0ms									
Static Bypass Range	80Vac± 5%~285Vac±5%									
Bypass -> INV Transfer Time	2ms									
Battery Specification										
Type	Sealed Lead Acid Maintenance Free									
Std. Model Rated Volts/Units	12V 7/9Ah×2P		12V 7/9Ah×4P		12V 7/9Ah×6P					
Backup time	5-10min		5-10min		5-10min					
Ext. Model Rate Volts/Units	24Vdc	36Vdc	48Vdc	72Vdc	72Vdc	96Vdc				
Std. Model Charging Current	1A		1A		1A					
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)	145×318×220	145×318×220	145×318×220	145×390×220	190×370×320	190×370×320				
Net Weight Kg	9	4.5	14	6	21.6	8.3				
Size mm(RM, W×D×H)	440×360×88/2U		440×360×88/2U			440×360×88/2U				
Net Weight Kg	13	8.5	18.5	11.5	/	12				

Note: Specification are subject to change without further notice.