

System Introduction

BH Series is a double conversion 1/1,3/1 Phase pure online UPS with DSP control. It has been designed for mainstream double conversion system with N+1 or N+X parallel redundancy feature, and manufactured with advanced SMT international standard, which provide outstanding stability and reliability.



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) On 3 Phase Model Input range is from 304 ~ 478 Vac.
- ◆ 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. 6-10KVA: 105-130% overload for 10 minutes, >130% overload for 60ms.
- ◆ Systems have parallel redundancy feature to increase the system reliability level.
- ◆ 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 power 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.

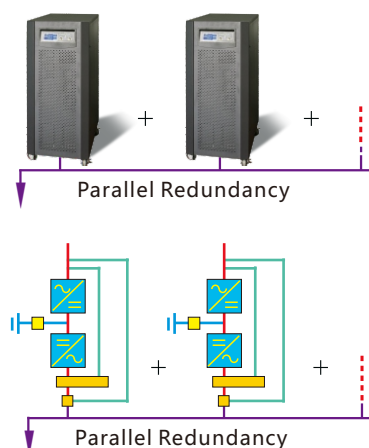
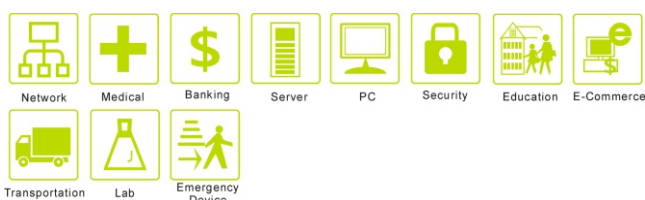
Safe and Reliable

- ◆ BH Series adapts DSP technology to control UPS all processes (including Parallel function) to increase system reliability.
- ◆ BH 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

BH 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	BH10S	BH10L	BH20S	BH20L	BH30S	BH30L	BH60S	BH60L	BH100S	BH100L	BH100L31	BH150L31	BH200L31
Capacity	1KVA/0.8KW		2KVA/1.6KW		3KVA/2.4KW		6KVA/4.8KW		10KVA/8KW		10KVA/8KW15KVA/12KW20KVA/16KW		
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	-15 ~ 60℃ (Without BATs)												
Humidity	< 95% Non Condensing												
Safety Standard	GB/T14715												
EMC Standard	EN 50091-1/2												
Protections	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low												
Parallel Redundancy	None						Available						
Generator Compatibility	Available												
DC Start	Available												
Manual Maintenance Bypass	None								Optional				
Display	LCD/LED: UPS Status, INV Status, Bypass Status, BAT Status, BAT %, Load %, Fault Messages												
Alarm	Auto												
Mute	Auto												
Rectifier Specification													
Input Voltage Range	100% Load:160~300Vac, 50% Load:115~300Vac						175 ~ 280Vac				304 ~ 478Vac		
Input Frequency Range	45-65Hz (Auto Tracking)												
Input PF	0.99												
THDI	< 5%												
Output Specification													
Output Voltage	220Vac												
Output PF	0.8												
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	< 1% (Linear Full Load) , < 3% (100% Non-Linear Load)												
Overload	> 125%: More than 1 min > 150%: 300 ms transfer to bypass						> 120%: More than 1 min > 150%: 300ms 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/7Ah×2/3节		12V/7Ah×4/6P		12V/7Ah×6/8P		12V/7Ah×16P		12V/7Ah×16P				
Backup time	5-15min		5-15min		5-15min		5-15min		5-15min				
Ext. Model Rate Volts/Units	24/36Vdc	36Vdc	48/72Vdc	72Vdc	72/96Vdc	96Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc
Std. Model Charging Current	1A		1A		1A		1A		1A				
Ext. Model Charging Current		5A		5A		5A		5A		5A	5A	5A	5A
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(D×W×H)	355×145×220		433×190×318				6/10K Std.: 500×240×620 6/10K Ext.: 500×240×460				500×248×620		
Net Weight Kg	9.8/11.9	6.5	18.523	10.5	21/25.1	11.5	57	20	67.5	22	27	35	35
Size mm(RM, D×W×H)	310×440×88/2U		436×440×88/2U				438×540×178/4U						
Net Weight Kg	11.5	7.5	/	10	/	14	/	18	/	20	25	/	/

Note: Specification are subject to change without further notice.

