

BH-R Series Online HF UPS(1-20KVA)



System Introduction

BH-R Series is a double conversion 1 Phase In/1 Phase Out, 3 Phase In/ 1 Phase Out pure online UPS with MCU control. It has been designed for mainstream high frequency double conversion online structure, which provide outstanding stability and reliability.

BH Series



SIERRA
ELECTRONIC & POWER SOLUTIONS

System Features

High Performance Index

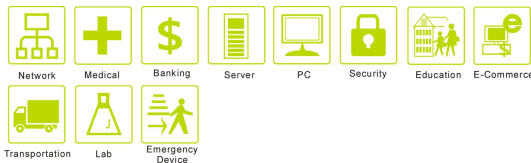
- ◆ Latest HF switching power supply rectifier and PFC Technology. Input Power Factor 0.99, THDI \leq 3.5%
- ◆ Wide Input Range from 160~300Vac on full load (100% Load, If Load is below 50%, it can be reached even equal or lower than 115Vac). On 3 Phase Model Input range is from 304 ~ 478 Vac.
- ◆ Latest IGBT technology to achieve high overall efficiency up to 90%. Compatible with 220/230/240V and 50/60 Hz Grid Supply Systems.
- ◆ Intuitive LCD/LED display, 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.

Rich Optional Accessories

BH-R Series can use SNMP Network Adapter, RS485/Dry Contact, USB port, and EPO function to build up a LAN or WLAN remote control and monitoring system



Compatible applications/loads



B01

BH Series



Specifications

Capacity	1KVA/0.8KW	2KVA/1.6KW	3KVA/2.4KW	6KVA/4.8KW	10KVA/8KW	10KVA/8KW	15KVA/12KW	20KVA/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°C								
Storage Temp.	-15 ~ 60°C (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								
DC Start	Available								
Generator Compatibility	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, 0.9 optional								
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% (None-Linear Full Load)								
Overload	> 125%: More than 1 min				> 120%: More than 1 min				
	> 150%: 300 ms transfer to bypass				> 150%: 300ms transfer to bypass				
Crest Ratio	3:1								
Efficiency	> 91%								
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 Piece	12V/7Ah×4 Piece	12V/7Ah×6 Piece	12V/7Ah×16 Piece	12V/7Ah×16 Piece	12V/7Ah×16 Piece	—————	—————	
Backup time	5-15min	5-15min	5-15min	5-15min	5-15min	5-15min	—————	—————	
Ext. Model Rate Volts/Units	36Vdc	72Vdc	96Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	
Std. Model Charging Current	1A	1A	1A	1A	1A	1A	1A	1A	
Ext. Model Charging Current	6A	7A	7A	7A	7A	7A	7A	7A	
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									
Size mm (D×W×H)	282×145×220	397×145×220	421×190×318 397×145×220	6/10K(Std.) : 369×190×688 6/10K(Ext.) : 369×190×318	15/20K(Std.) : 442×190×688 15/20K(Ext.) : 442×190×318	—————	—————	—————	
Net Weight Kg	9.8/4.1	17/6.8	27.6/7.4	63/12	64/13	68/17	132/17	132/23	

Note : Specification are subject to change without further notice.



B02