

BH Series

BH Series DSP Control HF Online UPS (1-20KVA 1/1 or 3/1 Phase)

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.

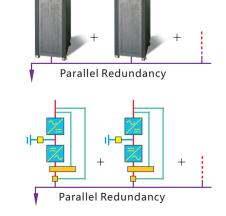
Safe and Reliable

- ♦ 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.





Specification

•	BH10S	BH10L	BH20S	BH20L	BH30S	BH30L	BH60S	BH60L	BH100S	BH100L		BH150L31	
Capacity	1KVA/0		2KVA/1		3KVA/	2.4KW	6KVA	4.8KW	10KV	A/8KW	10KVA/8KW	15KVA/12KW	20KVA/16
UPS Structure			chine Speci onversion Hig		cv Online								
Appearance			Rack-Mount		o, o								
Overall Efficiency (AC-AC)		> 90%	taok mount	.,,,,									
Noise(In 2 meters)		< 50dB											
Working Temp		0-40℃											
Storage Temp			C (Without	DATe \									
Humidity			n Condensi										
-		GB/T1471		iig									
Safety Standard													
EMC Standard		EN 50091	Short-Circui	it Over Ten	an Hillity De	wor Voltog	Liah/low E	AT Voltage	⊔iah/low				
Protections			Short-Circu	it, Over Tell	ip., Utility FC	wei voitage	e mign/low, E	AT VUITAGE	High/low	Available			
Parallel Redundancy Generator Compatibility		None Available								Available			
DC Start		Available											
lanual Maintenance Bypass		None								Optional			
Display	LCD/LED: UPS Status, INV Status, Bypass Status, BAT Status, BAT %, Load %, Fault Messages												
Alarm		Auto	. Or O Otatus	, iiv Otatu	5, Dypuss on	atas, bitt o	atas, bitt it	, Loud 70, 1	aun messagi				
Mute		Auto											
			Specificati	on									
Input Voltage Range			1:160~300Va		d:115~300Va	С		175 ~ 28	30Vac			804 ~ 478Vac	
Input Frequency Range			(Auto Tracki					20					
Input PF		0.99	(riato rraoiti	97									
THDI		< 5%											
			pecificatio	n									
Output Voltage		220Vac											
Output PF		0.8											
Output Voltage Regulation		220Vac±	1% (Static L	oad) : 220)Vac±2% (5	0-0% Sudd	en Change)	: 220Vac±	3% (100-0%	6 Sudden C	hange)		
Output Freq.(Online Mode)									.<46Hz or >5				
Output Freq. (BAT Mode)		50Hz± 0.		04. 4 0 1112	. ,put	i. Gatpati		put. roq.		TTIE, EUONO			
Output Waveform Distortion		Pure Sine			. 4000/ N		`						
Distortion			ear Full Load		100% Non-I	Linear Load)						
Overload			fore than 1 m		_				More than 1 m				
			00 ms transf	er to bypas	S			> 150%: 3	300ms transfe	er to bypass	3		
		3:1											
Crest Ratio													
Efficiency		> 90%											
Efficiency Short-Circuit		Circuit Au	to Protection			nt 0							
Efficiency Short-Circuit Output Abnormal		Circuit Au INV Outpu	ut Auto-Locke			nt 0							
Efficiency Short-Circuit Output Abnormal Noise Suppression		Circuit Au	ut Auto-Locke			nt 0							
Efficiency Short-Circuit Output Abnormal Noise Suppression BAT Low		Circuit Au INV Outpu EMI/RFI V	ut Auto-Locke			nt 0							
Efficiency Short-Circuit Output Abnormal Noise Suppression		Circuit Au INV Outpu EMI/RFI V Shutdown	ut Auto-Locke Vave filter	ed Protectio	on	nt 0							
Efficiency Short-Circuit Output Abnormal Noise Suppression BAT Low		Circuit Au INV Outpu EMI/RFI V Shutdown	ut Auto-Locke Vave filter Protection	ed Protectio	on	nt 0							
Efficiency Short-Circuit Output Abnormal Noise Suppression BAT Low Dynamic Response		Circuit Au INV Outpu EMI/RFI V Shutdown 3% at full Available Available	ut Auto-Locke Vave filter Protection Ioad , recov	ed Protection	on	nt 0							
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Efficiency Short-Circuit Output Abnormal Noise Suppression BAT Low Dynamic Response Auto-Restart Software Control Static Bypass Transfer Time Static Bypass Range Expass -> INV Transfer Time Type td. Model Rated Volts/Units Backup time Ext. Model Rate Volts/Units td. Model Charging Current ext. Model Charging Current cxt. Model Charging Current Communication Port Remote Software	5-15min 24/36Vdc 1A	Circuit Au INV Outpu EMI/RFI V Shutdown 3% at full Available Bypass S Oms 80Vac± 5° 2ms Battery S Sealed Le 36Vdc 5A Commun Rs232 (S) Multi-func Physical 5×220 6.5	pecification www.pecification www.pecification www.pecification www.pecification www.pecification www.pecification www.pecification www.pecification www.pecification ad Acid Main 12V/7Ah×4/6P 5-15min 48/72Vdc 1A www.pecification ication Specification ication	ering in 201 n 72Vdc 5A ecification (RS485/ Dr	ree 12V/7Ah×6/8P 5-15min 72/96Vdc 1A y Contact (m, Online ar	96Vdc 5A Optional Ac	5-15min 192Vdc 1A cessory) e Status, BA 6/ Smaller C Smaller C	5A T Fault, Rei 10K Std.: 5 10K Ext.: 5 abinet,6/10 abinet,6/10	5-15min 192Vdc 1A mote Control 00×240×620 0K Std.: 480×	5A 180×760 190×345 22	5A	5A	5A 0 35

Note: Specification are subject to change without further notice.















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