

# BH- Plus Power+

## Smart-Online UPS 1~20kVA

- »Low THDi: <3.5%
- »Output PF up to 0.8, (0.9 Optional)
- »AC/AC efficiency up to 95%
- »High power density design

### System Introduction

**BH -Plus Power+** is a double conversion 1/1,3/1 Phase pure online UPS with High Efficiency Rate. It has been designed for mainstream double conversion system with advanced UPS processing control and high adaptive to all kinds of environment. It is also manufactured with advanced SMT international standard, which provide outstanding stability and reliability.

### System Features

#### High Performance Index

- ✓Latest **BH Plus Power+** 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.
- ✓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/Tower structure design. It can be compatible with standard communication cabinet to greatly save data room spaces.

#### Typical Applications:



#### Safe and Reliable

- ✓**BH Plus Power+** adapts UPS new controlling software technology to control UPS all processes to increase system reliability.
- ✓**BH Plus Power+** 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 Plus Power+** can use SNMP Network Adapter, RS485/Dry Contact, USB port, and EPO function to build up a remote control and monitoring system.

#### Certification:



#### Available Socket:



### Critical Power Network

## Technical 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/8KW	15KVA/12KW	20KVA/16KW	
<b>Host Machine Specification</b>														
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; EN62040-1													
EMC Standard	EN 50091-1/2, EN62040-2													
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													
<b>Rectifier Specification</b>														
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%													
<b>Output Specification</b>														
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% ( 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													
<b>Bypass Specification</b>														
Static Bypass Transfer Time	0ms													
Static Bypass Range	80Vac± 5% ~ 285Vac±5%													
Bypass -> INV Transfer Time	2ms													
<b>Battery Specification</b>														
Type	Sealed Lead Acid Maintenance Free													
Std. Model Rated Volts/Units	12V/7Ah×2/3P		12V/7Ah×4/6P		12V/7Ah×6/8P		12V/7Ah×16P				12V/7Ah×16 Pieces			
Backup time	5-15min		5-15min		5-15min		5-15min		5-15min		192Vdc	192Vdc	192Vdc	192Vdc
Ext. Model Rate Volts/Units	24/36Vdc	36Vdc	48/72Vdc	72Vdc	96Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc	192Vdc
Std. Model Charging Current	1A		1A		1A		1A		1A		2.5A	2.5A	2.5A	2.5A
Ext. Model Charging Current		4A		4A		4A		4A		2.5A	2.5A	2.5A	2.5A	
<b>Communication Specification</b>														
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													
<b>Physical Parameters</b>														
Size mm(RM, D×W×H)	485 ×430 ×88/2U			485 ×430 ×88/2U			680 ×430 ×88/2U			680 ×430 ×88/2U				
Net Weight Kg	12.5	9	/	11	/	12	/	19	/	20	20	32	32	

Note: Specification are subject to change without further notice.

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