



ONLINE DOUBLE CONVERSION HIGH FREQUENCY UPS 10KVA-200KVA

3-phase in / 3-phase out



TO BE GLOBAL LEADER IN POWER SOLUTIONS

SHENZHEN BKPOWER CO., LTD



Product Overview

The BKPOWER three-phase online dual-frequency UPS adopts an advanced dual-frequency topology and is equipped with dual DSP controllers to digitally control rectification, inversion, charging and discharging.

It has independent current sharing control and no risk of single point failure. It is a high-quality power supply product that integrates cutting-edge power electronics technology.

It can ensure clean and stable power supply in any situation, effectively isolate power interference, and protect your critical equipment from power problems.

Applications

■ Healthcare

Ensuring stable operation of medical equipment and safeguarding medical activities.

■ Industry

Providing reliable power support for industrial automation equipment, preventing production interruptions due to power issues.

■ Airports, Air Traffic Control Centers

Ensuring the safety and smooth operation of air traffic, avoiding safety issues caused by power failures.

■ IDC Rooms

Providing a stable power environment for data centers, ensuring data integrity and security.

■ Finance, Communications, Disaster Recovery, Data Centers

Offering continuous and reliable power protection for these critical infrastructures.



Technical Advantages

■ High Reliability

Dual DSP controllers, independent current sharing control, modular design, redundant fan design, and three-proofing circuit board technology collectively ensure high system reliability.

■ High Performance

Strong load adaptability, overload and short-circuit capacity, and ultra-wide input voltage and frequency range enable the BK-H33-10KVA to easily handle various complex power environments.

■ High Efficiency and Energy Saving

High input power factor, low input harmonic current, and high overall efficiency not only reduce operational costs but also meet green standards.

■ Intelligent Management

Intelligent battery management solutions and digital circulating current control technology enhance the system's intelligence level, facilitating user management and maintenance.

■ Environmental Protection

Green design complies with multiple international standards, establishing a positive environmental image for your enterprise.

Product Features

■ Three-phase in/three-phase out pure online double-conversion technology

Supports 380/400/415V, 50/60Hz grid systems, providing optimal power quality and load protection to ensure stable equipment operation.

■ Strong load adaptability and short-circuit capacity

Easily handles various complex load conditions to ensure stable power supply.

■ Ultra-wide input voltage and frequency range

Adapts to harsh grid environments and is compatible with various fuel generator connections, enhancing power supply reliability.

■ High efficiency and energy saving

Input power factor up to 0.99, input harmonic current less than 3%, overall efficiency greater than 95%, reducing operational costs and meeting green standards.

■ Full digital control

Utilizes DSP digital control technology for digital control of rectification, inversion, charging, and discharging power conversion links, improving system stability and reliability.

■ Intelligent battery management

Intelligent battery management solutions effectively extend battery life and reduce maintenance costs.

■ Modular design

The system adopts modular design for stable and reliable performance, facilitating maintenance and upgrades.

■ Redundant design

All fans adopt redundant design, greatly improving system reliability and ensuring continuous power supply.

■ High reliability

Mean Time Between Failures (MTBF) exceeds 200,000 hours, and Mean Time To Repair (MTTR) is less than 0.5 hours, ensuring long-term stable system operation.

■ Three-proofing circuit board technology

All circuit boards adopt three-proofing technology, enhancing system adaptability and reliability in harsh environments.



Specifications

Model		10KL	15KL	20KL	30KL	40KL	50KL
Capacity	KVA/KW	10KVA 9KW	15KVA 13.5 KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	50KVA 45KW
Input	Minimum Conversion Voltage	110 VAC (Ph-N) ± 3 % at 50% load; 176 VAC (Ph-N) ± 3 % at 100% load					
	Minimum Recovery Voltage	Minimum conversion voltage + 10V					
	Maximum Conversion Voltage	300 VAC(L-N) ± 3 at 50% load; 276 VAC(L-N) ± 3 % at 100% load					
	Maximum Recovery Voltage	Maximum conversion voltage - 10V					
	Frequency Range	46Hz ~ 54 Hz @ 50Hz System; 56 Hz ~ 64 Hz @ 60 Hz System					
	Phase	Three-phase + Neutral					
	Power Factor	100% load ≥ 0.99					
Output	Phase	Three-phase + Neutral					
	Output Voltage	3 x 360*/380/400/415/VAC (3Ph+N)					
	Voltage Accuracy	± 1%					
	Frequency Range	46Hz ~ 54 Hz @ 50Hz system; 56 Hz ~ 64 Hz @ 60 Hz System					
	Overload	AC Mode: 100%~110%: 10 minutes, 110%~130%: 1 minute, >130% : 1 second Battery Mode: 100%~110%: 30 seconds, 110%~130%: 10 seconds, >130% : 1 second					
	Current Peak Ratio	3:1 max					
	Harmonic Distortion	≤ 2 % @ 100% Linear Load; ≤ 5 % @ 100% Non-linear Load					
Battery	Switching time	Online To Battery: 0ms; Inverter To Bypass:0ms; Inverter To ECO:<10 ms					
	Battery Model	12V / 9Ah	12V / 7Ah	12V / 9Ah	12V / 7Ah	12V / 7Ah	12V / 9Ah
	Battery Quantities	16PCS	32PCS	32PCS	64PCS	64PCS	64PCS
	Charging Current (max)	1.0 A ± 10%	2.0 A ± 10%				
Efficiency	Charging Voltage	+/- 13.65 VDC * N ±1% (N = 16~20)					
	AC Mode	90.5%	91.5%	91.5%	95%	95%	95%
	Battery Mode	87%	88%	88%	94.5%	94.5%	94.5%
Management	Intelligent RS-232 or USB	Support for Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux and MAC					
	Optional SNMP	Support for power management by SNMP administrator and web browser					
Physical	Dimensions (W×H×L) MM	592X250X826			815X300X1000		
	Weight (KG)	90	134	146	207	215	229
	Noise	<60dB	<65dB				<70dB



Specifications

Model		10KVA	15KVA	20KVA	30KVA	40KVA	50KVA
Capacity	KVA/KW	10KVA 9KW	15KVA 13.5 KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	50KVA 45KW
Input	Minimum Conversion Voltage	110 VAC (Ph-N) ± 3 % at 50% load; 176 VAC (Ph-N) ± 3 % at 100% load					
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	Frequency Range	46Hz ~ 54 Hz @ 50Hz System; 56 Hz ~ 64 Hz @ 60 Hz System					
	Phase	Three-phase + Neutral					
	Power Factor	100% load ≥ 0.99					
Output	Phase	Three-phase + Neutral					
	Output Voltage	3 x 360*/380/400/415/VAC (3Ph+N)					
	Voltage Accuracy	± 1%					
	Frequency Range	46Hz ~ 54 Hz @ 50Hz system; 56 Hz ~ 64 Hz @ 60 Hz System					
	Overload	AC Mode: 100%~110%: 10 minutes, 110%~130%: 1 minute, >130% : 1 second Battery Mode: 100%~110%: 30 seconds, 110%~130%: 10 seconds, >130% : 1 second					
	Current Peak Ratio	3:1 max					
	Harmonic Distortion	≤ 2 % @ 100% Linear Load; ≤ 5 % @ 100% Non-linear Load					
Battery	Switching time	Online To Battery: 0ms; Inverter To Bypass:0ms; Inverter To ECO:<10 ms					
	Battery Model	Depending on use					
	Battery Quantities	Depending on use					
	Charging Current (max)	4.0 A ± 10%			1~12A±10% Preset 1A		
Efficiency	Charging Voltage	+/- 13.65 VDC * N ± 1% (N = 16~20)					
	AC Mode	90.5%	91.5%	91.5%	95%	95%	95%
	Battery Mode	87%	88%	88%	94.5%	94.5%	94.5%
Management	Intelligent RS-232 or USB	Support for Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux and MAC					
	Optional SNMP	Support for power management by SNMP administrator and web browser					
Physical	Dimensions (W×H×L) MM	592X250X576			815X300X1000		
	Weight (KG)	38	40	40	54	54	74
	Noise	<60dB	<65dB				<70dB



Specifications

Model		60KVA	80KVA	100KVA	120KVA	160KVA	180KVA	200KVA							
Capacity	KVA/KW	60KVA 54KW	80KVA 72KW	100KVA 90KW	120KVA 96KW	160KVA 128KW	180KVA 160KW	200KVA 180KW							
Input	Minimum Conversion Voltage	110 VAC (Ph-N) ± 3 % at 50% load; 176 VAC (Ph-N) ± 3 % at 100% load													
	Minimum Recovery Voltage	Minimum conversion voltage + 10V													
	Maximum Conversion Voltag	300 VAC(L-N) ± 3 at 50% load; 276 VAC(L-N) ± 3 % at 100% load													
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	Frequency Range	46Hz ~ 54 Hz @ 50Hz System; 56 Hz ~ 64 Hz @ 60 Hz System													
	Phase	Three-phase + Neutral													
	Power Factor	100% load ≥ 0.99													
Output	Phase	Three-phase + Neutral													
	Output Voltage	3 x 360*/380/400/415/VAC (3Ph+N)													
	AC Voltage Range	± 1%													
	Frequency Range	46Hz ~ 54 Hz @ 50Hz system; 56 Hz ~ 64 Hz @ 60 Hz System													
	Overload	AC Mode: 100%~110%: 10 minutes, 110%~130%: 1 minute, >130% : 1 second Battery Mode: 100%~110%: 30 seconds, 110%~130%: 10 seconds, >130% : 1 second													
	Current Peak Ratio	3:1 max													
	Harmonic Distortion	≤ 2 % @ 100% Linear Load; ≤ 5 % @ 100% Non-linear Load													
Battery	Switching time	Online To Battery: 0ms; Inverter To Bypass:0ms; Inverter To ECO:<10 ms													
	Battery Model	Depending on use													
	Battery Quantities	Depending on use													
	Charging Current (max)	1~18A±10% preset 1A		2~36A±10% preset 2A		3~54A±10% preset 3A									
Efficiency	Charging Voltage	+/- 13.65 VDC * N ± 1% (N = 16~20)													
	AC Mode	95%													
	Battery Mode	94.5%													
Management	Intelligent RS-232 or USB	Support for Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux and MAC													
	Optional SNMP	Support for power management by SNMP administrator and web browser													
Physical	Dimensions (W×H×L) MM	815X300X1000				974X600X1600									
	Weight (KG)	87		241	286		382								
	Noise	<70dB		<75dB											

PRODUCT CATALOG

UPS System

Voltage Stabilizer

Transformer

VFD Inverter

Soft Starter

Solar Inverter

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