



ONLINE DOUBLE CONVERSION HIGH FREQUENCY UPS 10KVA-20KVA

3-phase in / 1-phase out

TO BE GLOBAL LEADER IN POWER SOLUTIONS



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 series 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 91%, 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	10KVA	15KL	15KVA	20KL	20KVA
Capacity	KVA/KW	10KVA/8KW		15KVA/12KW		20KVA/16KW	
Phase		Three-phase + Neutral					
Input	Nominal Voltage	380/400/415Vac					
	Voltage Range	285~475Vac					
	Frequency Range	46Hz ~ 54 Hz @ 50Hz System; 56 Hz ~ 64 Hz @ 60 Hz System					
	Power Factor	100% load ≥ 0.99					
Output	Output Voltage	208/220/230/240Vac					
	Voltage Accuracy	± 1%					
	Frequency Range	50Hz / 60Hz±0.1Hz					
	Crest Factor	3:1 MAX					
	Switching time	Online To Battery: 0ms; Inverter To Bypass:0ms; Inverter To ECO:<10 ms					
	Harmonic Distortion	≤ 3 % @ 100% Linear Load; ≤ 5 % @ 100% Non-linear Load					
	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					
	Waveform	Pure Sinewave					
Battery	Battery Model	12V / 9Ah					
	Battery Quantities	20PCS	External	20PCS	External	20PCS	External
	Charging Current (max)	1.0 A ± 10%				1A/2A/4A± 10%(2A default)	
	Charging Voltage	273 VDC ±1%					
Efficiency	AC Mode	93%					
	Battery Mode	91%					
Manage-ment	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	442X190X688	442X190X318	442X190X688	442X190X318	818X250X826	575X190X318
	Weight (KG)	76	15	78	16	145	18.95
	Noise	<60dB @1 Meter					

PRODUCT CATALOG

UPS System
Voltage Stabilizer
Transformer

VFD Inverter
Soft Starter
Solar Inverter

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