



ONLINE DOUBLE CONVERSION INDUSTRIAL FREQUENCY UPS 10KVA-800KVA

3-phase in / 3-phase out

TO BE GLOBAL LEADER IN POWER SOLUTIONS

SHENZHEN BKPOWER CO., LTD



Product Overview

The BK-G Series UPS adopts a traditional line-frequency transformer-based design with three-phase input and three-phase output, specifically engineered for mission-critical loads demanding ultra-high stability. Its built-in industrial-grade line-frequency transformer provides inherent electrical isolation, effectively suppressing grid harmonics, electromagnetic interference (EMI), and voltage spikes to deliver pure, reliable power to sensitive equipment.

Powered by a high-performance DSP full-digital control system combined with sixth-generation low-loss IGBT inversion technology, it achieves precise regulation of output voltage and frequency.

Applications

- Industrial Automation & Heavy-Duty Machinery
- Data Centers & Critical IT Infrastructure
- Medical & Healthcare Facilities
- Telecommunications & Financial Systems
- Transportation, Rail & Energy Infrastructure

Technical Advantages

- **Stable and Reliable Power Protection**
Effectively solves power problems such as outages, voltage fluctuations, and frequency variations, ensuring continuous operation of critical equipment.
- **Highly Integrated Digital and Networking Technologies**
Facilitates management and monitoring, improving efficiency and reducing operational costs.
- **Strong Environmental Adaptability and Overload Capacity**
Ensures stable operation under extreme conditions, enhancing equipment availability.
- **Flexible Parallel Redundancy Design and Multiple Power Supply Modes**
Meets diverse business needs, improving system reliability and scalability.



Product Features

■ Advanced Design

Online double-conversion design with zero phase-shift output isolation transformer ensures pure and stable power output.

■ Strong Environmental Adaptability

Wide input voltage and frequency range adapts to harsh grid environments, ensuring stable operation.

■ Strong Overload Capacity

Excellent output overload and short-circuit resistance (sustainable for 5 seconds) protects equipment from damage.

■ N+X Parallel Redundancy Design

Supports up to 6 units in parallel, including different models, improving system reliability and scalability.

■ Quasi-Modular Design

Independent heat sinks for power devices facilitate installation and on-site maintenance, reducing maintenance costs.

■ LBS Synchronization

Enables synchronization of two independent UPS systems, enhancing overall system reliability.

■ Generator Compatibility

Power Walk In slow start function reduces inrush current, protecting generators and UPS equipment.

■ Advanced Battery Management

Includes temperature compensation, battery life extension, discharge time prediction, and battery self-test, extending battery life and ensuring performance.

■ DSP Full Digital Control

Dual DSP digital control technology ensures system stability and reliability, improving control accuracy and response speed.

■ Automatic Power-On

Memory auto-start function enhances equipment usability.

■ Large LCD Display

Chinese/English LCD menu and real-time data display for easy monitoring of equipment status.

■ Flexible Network Monitoring

Standard RS232/RS485 communication interfaces, optional SNMP/JBUS/MODBUS dry contact cards for remote monitoring and management.

■ Intelligent Fan Speed Control

Adjusts fan speed based on internal temperature and load, reducing noise and energy consumption.

■ DC Start Function

Batteries can be used directly to start the UPS, convenient for use without mains power.

■ Comprehensive Protection

Includes power-on self-diagnosis, short-circuit, inverter over-temperature, battery under-voltage, battery over-charge, and surge protection.

■ Flexible Power Supply Modes

Offers normal mode, combined power supply mode, ECO mode, auto-start mode, and variable frequency mode to meet diverse business needs.

■ Rich Optional Accessories

Includes harmonic filters, bypass current sharing inductors, Class C lightning protection boxes, parallel cables, load synchronization (LBS) cables, SNMP/JBUS/MODBUS/dry contact cards, battery ground fault components, battery temperature sensors, and UPS room signals.

Specifications

Capacity	KVA	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA		
	KW	8KW	16KW	24KW	32KW	48KW	64KW	80KW	96KW		
Number Of Parallel Machines		Support up to 8 units									
Efficiency	Double Conversion Mode		90%								
	Economy Mode		96%								
Input	Main Input	Rated Voltage	380/400/415Vac								
		Voltage Tolerance	±25%								
		Wiring	3 phase 5wires(3L+N+PE) / 3 phase 4 wires(3L+PE)								
		Frequency Tolerance	45~65Hz								
		Power Factor	>0.95(Add filter)								
	Bypass Input	Nominal Voltage	380/400/415Vac								
		Voltage Tolerance	±25%								
		Wiring	3 phase 5wires(3L+N+PE) / 3 phase 4 wires(3L+PE)								
		Frequency Tolerance	±2% (±0. 5%, +1%, ±2%, ±3% Configurable)								
Output	Rated Voltage		380/400/415 ±1%								
	Power Factor		≥0.8 (Customizable)								
	Frequency Tolerance		Automatically track bypass frequency								
	Output THD		Sine wave THDV is less than 1% (pure linear load)								
	Switching Time		0ms								
	Efficiency		≥95%								
	Voltage Regulation Accuracy	Steady State	±1%								
		Transient	±5%								
	Overload Capacity		105%~110%:60min Switch to bypass;110%~125%: 10min Switch to bypass;>125%: 10s Switch to bypass								
Others	Battery	Voltage Range	384(Standard) / 396/408(Customizable)								
	Environment	Operating Temperature	-10~40°C								
		Storage Temperature	-25~55°C(Battery not included)								
		Humidity	0~95% (Non-condensing)								
		Altitude	1500m, If the limit is exceeded, use the derated capacity in accordance with GB/T3859.2.								
		Noise	<65dB@ 1 meters								
	Alarm Function	Alarm Range	Output short circuit, overload, over temperature, battery undervoltage								
		Alarm Method	Sound alarm								
	Protection Function		Output short circuit, overload, over temperature, battery undervoltage, output over-voltage and under-voltage, lightning protection (optional)								
	Communications and Management	Communication Function	Standard: RS232 ; Optional: RS485/SNMP/Dry Contact								
		Display Panel	LCD display / LED status indicator								
Optional Accessories			Support SNMP management and network management								
Dimensions (W×D×H) MM			300×600×810	400×750×1010	450×830×1160	700×800×1500					
Weight (KG)			91	120	190	208	291	365	563	650	

Specifications

Capacity	KVA	160KVA	200KVA	300KVA	400KVA	500KVA	600KVA	800KVA			
	KW	128KW	160KW	240KW	320KW	400KW	480KW	640KW			
Number Of Parallel Machines		Support up to 8 units									
Efficiency	Double Conversion Mode		90%								
	Economy Mode		96%								
Input	Main Input	Rated Voltage	380/400/415Vac								
		Voltage Tolerance	±25%								
		Wiring	3 phase 5wires(3L+N+PE) / 3 phase 4 wires(3L+PE)								
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	Environment	Operating Temperature	-10~40°C								
		Storage Temperature	-25~55°C(Battery not included)								
		Humidity	0~95% (Non-condensing)								
		Altitude	1500m, If the limit is exceeded, use the derated capacity in accordance with GB/T3859.2.								
		Noise	<70dB@ 1 meters								
	Alarm Function	Alarm Range	Output short circuit, overload, over temperature, battery undervoltage								
		Alarm Method	Sound alarm								
	Protection Function		Output short circuit, overload, over temperature, battery undervoltage, output over-voltage and under-voltage, lightning protection (optional)								
	Communications and Management	Communication Function	Standard: RS232 ; Optional: RS485/SNMP/Dry Contact								
		Display Panel	LCD display / LED status indicator								
Optional Accessories			Support SNMP management and network management								
Dimensions (W×D×H) MM			700×800×1700	1035×850×1800	1210×1000×1800			2000×870×2050			
Weight (KG)			738	840	1220	1420	1680	1740	1820		

PRODUCT CATALOG

UPS System

Voltage Stabilizer

Transformer

VFD Inverter

Soft Starter

Solar Inverter

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