



ONLINE DOUBLE CONVERSION MODULAR ONLINE UPS 20KVA-90KVA

3-phase in / 3-phase out

TO BE GLOBAL LEADER IN POWER SOLUTIONS



Product Overview

The BK-M Series is a three-phase modular UPS (20–120kVA) featuring N+X redundancy and advanced modularity, enabling flexible capacity configuration and phased investment. It resolves all power issues—outages, over/undervoltage, surges, harmonics, noise, frequency fluctuations, etc.—ensuring stable, reliable power for critical equipment.

Applications

- **Data Centers/Server Rooms:** Critical servers, virtualization, and cloud computing environments.
- **Industrial Automation:** Production manufacturing equipment and process control systems.
- **Communication Base Stations:** Mobile network base stations and optical communication networks.
- **Medical Institutions:** Operating rooms, intensive care units, and hospital information systems.
- **Financial Institutions:** Bank branches and financial data centers.
- **Transportation Hubs:** Airports, railway stations, and highway toll stations.

Technical Advantages

- **Highly Adaptable Modular Design**
The modular architecture allows for seamless scalability. Users can easily add or remove power modules based on their specific power requirements, making it an ideal solution for businesses with fluctuating power needs.
- **Advanced Parallel Operation Technology**
Equipped with state-of-the-art parallel operation technology, it ensures high system reliability and availability. Multiple UPS units can work together in parallel, sharing the load and providing redundancy. In the event of a single unit failure, the other units continue to supply power, ensuring uninterrupted operation and enhanced system reliability.
- **Smart Power Management System**
The intelligent power management system optimizes battery usage and extends battery life. It continuously monitors and adjusts the charging and discharging process of the batteries, ensuring they operate at their best and longest possible service life.



20KVA



40KVA



60KVA

Product Features

■ Modular Redundant Parallel Design

The power system features a modular redundant parallel architecture, composed of 1 to 10 UPS power modules rated at 20KVA each, with online hot-swappable capability for easy expansion. Users can seamlessly increase modules to match growing load demands, offering strong scalability and significantly reducing operational costs.

■ Multi-System Power Technology

Equipped with advanced multi-system power technology, it flexibly supports both "3-phase in, 3-phase out" and "3-phase in, single-phase out" modes without altering total power, catering to diverse power requirements.

■ Independent Module Control

Each power module operates independently, so a single module failure doesn't disrupt the entire system. This fully leverages redundant functions, ensuring continuous equipment operation and maximizing fault redundancy.

■ Smart Hot-Swap Technology

Enabled by intelligent off-line hot-swapping technology, users can freely add or remove faulty power modules without powering down the system, achieving true online maintenance of the parallel system and enhancing availability.

■ Superior Parallel Technology

With exceptional parallel capability, the system sets a new standard in UPS reliability. It boasts an MTBF 1.5 times higher, an MTBCF 3 times higher than traditional UPS systems, and a rapid MTTR of just 5 minutes.

■ Two-Way Monitoring and Self-Testing

Features two-way monitoring and self-testing capabilities, allowing users to comprehensively monitor the power system's operation in real-time and promptly address potential issues for uninterrupted performance.

■ Advanced PFC Circuit Design

Utilizes cutting-edge PFC circuits for an input THDI of 5%, an input PF of 0.99, and an output THD below 2% under linear loads. This minimizes grid pollution, reduces grid load and power losses, and achieves a high overall efficiency of 95%, ensuring significant energy savings.



Specifications

Model		20-10X	30-10X	40-10X	60-10X	90-15X
System Capacity		20KVA	30KVA	40KVA	60KVA	90KVA
Capacity	KVA/KW	10KVA/9KW				15KVA/13.5KW
Input	Phase	3 Phase+N+G, 380V/400V/415V - line-line				
	Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage				
	Frequency	50/60Hz				
	Power Factor	>0.99				
	Input THD	<4%				
Bypass	Voltage Range	380/400/415Vac (line-line) Settable, -40% ~ +25%				
	Rate Frequency	50/60Hz - Settable, $\pm 1\text{Hz}$, $\pm 3\text{Hz}$, $\pm 5\text{Hz}$				
	Bypass Overload	110% long term operation ; 130% for 5mins ;150% for 1 min ; >150% for 300ms				
Output	Rate Voltage	380/400/415Vac - line-line				
	Voltage Accuracy	1% for balance load ; 1.5% for unbalance load				
	Rate Frequency	50/60Hz $\pm 0.1\%$				
	Power Factor	0.9				
	Output THD	<1%				
	Crest Factor	3:1				
	Inverter Overload	110% for 1 hour; 125% for 10 mins ;150% for 1 min ; >150% for 200 ms				
Battery	Voltage	$\pm 240\text{Vdc}$				
	Battery Number	40pcs Settable: even number from 32 to 4				
	Charge Power	Up to 20% * Output active power				
System	Efficiency	AC Mode:95.00%; ECO Mode:98.00%; Battery Mode:94.50%				
	Display	7.0" color touch screen LCD + LED + keyboard				
	Interface	RS232, RS485, Programmable Dry Contact				
	Optional Equipment	SNMP Card, Parallel kit, SPD, Power module with battery cold start function				
Noise		56dB @ 50% load @1 meter				
Dimensions	Cabinet/Power Module W×D×H(MM)	485×697×398 436×590×85	485×697×575 436×590×85	485×751×575 436×590×85	485×751×1033 436×590×85	485×751×1033 436×590×85
	Weight Cabinet/Power Module(KG)	42/15.3	51/15.3	55/15.3	70/15.3	70/15.5

PRODUCT CATALOG

UPS System
Voltage Stabilizer
Transformer

VFD Inverter
Soft Starter
Solar Inverter

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