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ONLINE DOUBLE CONVERSION MODULAR ONLINE UPS 60KVA-600KVA

3-phase in / 3-phase out

TO BE GLOBAL LEADER IN POWER SOLUTIONS

SHENZHEN BKPOWER CO., LTD

Product Overview

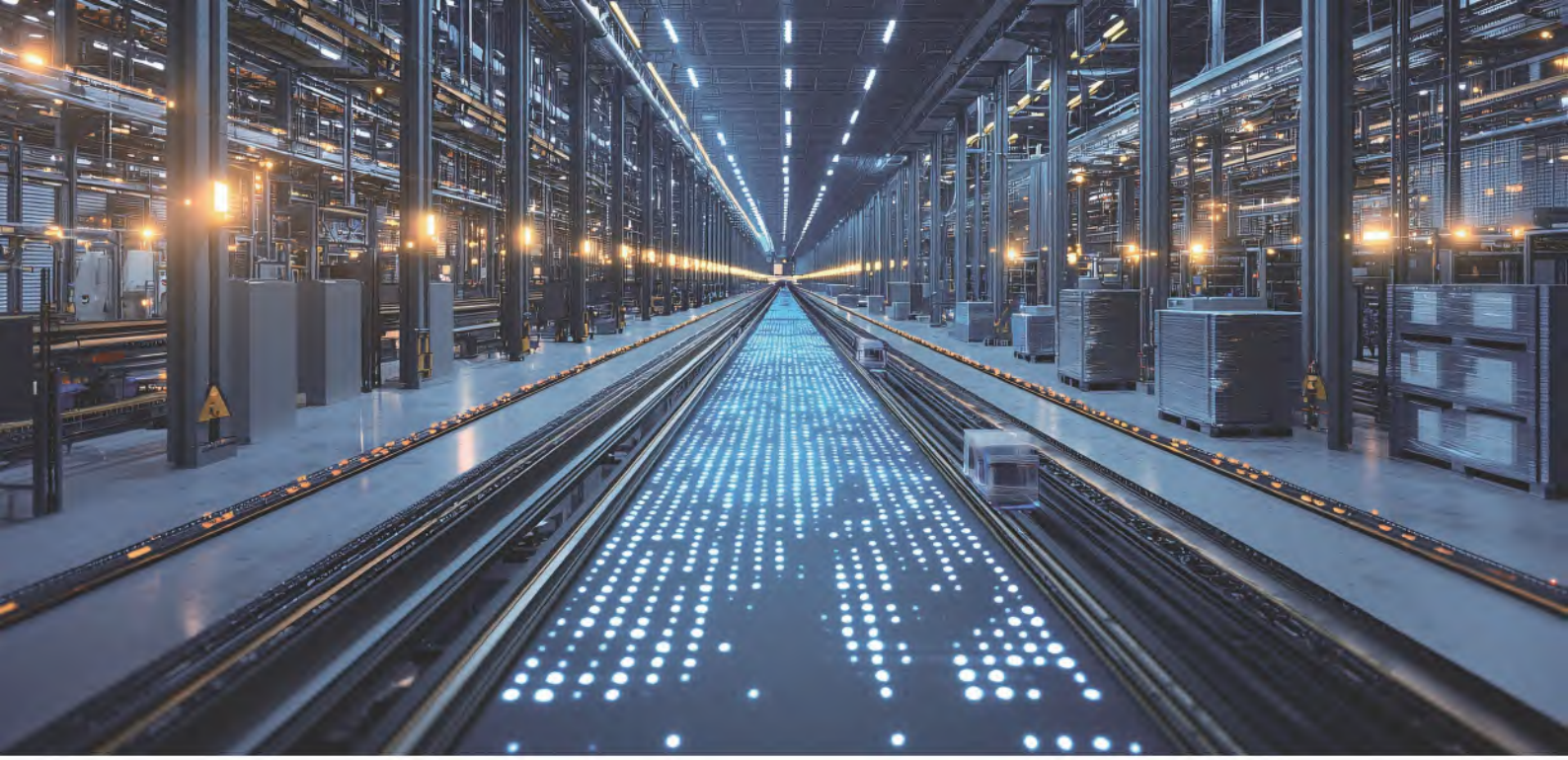
The BK-RM Series is a three-phase modular UPS (60–600kVA) featuring N+X redundancy and advanced modularity, enabling flexible capacity configuration and phased investment. It resolves all power issues—outages, over/undervoltage, surges, harmonics, noise, frequency fluctuations, etc.—ensuring stable, 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.



Product Features

- **Full Digital Control**

  All UPS components adopt full digital control technology, resulting in excellent performance indicators and a more stable and reliable control system, which can accurately respond to various grid conditions.

- **High Power Density & Hot-Swappable Modules**

  The power modules support online hot-swapping, enabling module addition or removal without system shutdown. The UPS can be installed in rows, significantly saving computer room space and reducing wiring complexity.

- **Independent Air Duct Design**

  Each power module is equipped with an independent heat dissipation duct, isolating heat from other modules to avoid thermal interference and effectively reducing equipment failure risks caused by overheating.

- **N+X Parallel Redundancy**

  When the number of redundant modules reaches 2 or more, the system availability reaches 99.99%. The capacity can be arbitrarily configured to meet different load requirements, enhancing system reliability.

- **Intelligent Battery Management**

  The charging current is configurable, and the charging modes (constant current, constant voltage, floating charge) can be automatically and smoothly switched. It supports 10-50 battery cells, adapting to different battery configurations and extending battery service life.

- **LCD Display & Multi-Language Support**

  Equipped with a touch LCD screen supporting Chinese and English bilingual display. LED indicators provide intuitive operation status, facilitating on-site monitoring and parameter setting.

- **Emergency Shutdown (EPO)**

  Equipped with an emergency shutdown button to quickly cut off the UPS output in emergency situations, ensuring the safety of personnel and equipment.

Specifications

Model		RM30-60KVA	RM30-90KVA	RM30-120KVA	RM30-150KVA	RM30-300KVA
Basic Information	Cabinet Capacity	60KVA/60KW	90KVA/90KW	120KVA/120KW	150KVA/150KW	300KVA/300KW
	Power Module Capacity	30KVA/30KW				
	Max Power Modules	2	3	4	5	10
	Phase	3 Phase In / 3 Phase Out				
Input	Nominal Voltage	380/400/415VAC（3Ph+N）				
	Voltage Range	138 ~ 485VAC, 305 ~ 485VAC No derating				
	Frequency Range	40~70Hz				
	Power Factor	≥0.99				
	Bypass Range	Voltage Upper Limit :Bypass protection voltage upper limit +25% Voltage Lower Limit :Bypass protection voltage lower limit -45%				
	THDi	≤5% (100% linear load)				
Output	Nominal Voltage	380/400/415VAC（3Ph+N）				
	Voltage Accuracy	±1%				
	Frequency	Mains Mode:Synchronized with input; When mains frequency exceeds ±10% Battery Mode:50/60±0.2Hz				
	Transfer Time	0ms				
	Overload Capability	≤110%: 60min; 125%: 10min; 150%: 1min; ＞150% Switch to bypass				
	Harmonic Distortion	≤2% (100% linear load); ≤3% (100% non-linear load)				
Efficiency		≥96%				
Communication Interface		RS232, RS485, 2 Intelligent Slots (Dry contact available), Dry contacts;SNMP(optional)				
Battery &Charger	Battery Voltage	±180Vdc ～ ±300Vdc (10~50 battery cells optional)				
	Charging Current (UPS Cabinet)	40A max	60A max	80A max	100A max	200A max
	Charging Current (Power Module)	20A max				
Environment	Operating Temperature	0℃~40℃				
	Humidity	0~95% non-condensing				
	Altitude	＜1500m				
Standards	Safety	IEC/EN 62040-1				
	EMC	IEC/EN 62040-2 Category C3				

Note: The technical parameters provided here are for reference only and are intended as a selection guide. The final product specifications will be subject to the final order document.

Specifications

Model		RM50-300KVA	RM50-400KVA	RM50-500KVA	RM50-600KVA
Basic Information	Cabinet Capacity	300KVA/300KW	400KVA/400KW	500KVA/500KW	600KVA/600KW
	Power Module Capacity	50KVA/50KW			
	Max Power Modules	6	8	10	12
	Phase	3 Phase In / 3 Phase Out			
Input	Nominal Voltage	380/400/415VAC（3Ph+N+G）			
	Voltage Range	138 ~ 485VAC, 305 ~ 485VAC No derating			
	Frequency Range	40~70Hz			
	Power Factor	≥0.99			
	Bypass Range	Voltage Upper Limit :Bypass protection voltage upper limit +25% Voltage Lower Limit :Bypass protection voltage lower limit -45%			
	THDi	≤5% (100% linear load)			
Output	Nominal Voltage	380/400/415VAC（3Ph+N+G）			
	Voltage Accuracy	±1%			
	Frequency	Mains Mode:Synchronized with input; When mains frequency exceeds ±10% Battery Mode:50/60±0.2Hz			
	Transfer Time	0ms			
	Overload Capability	≤110%: 60min; 125%: 10min; 150%: 1min; ＞150% Switch to bypass			
	Harmonic Distortion	≤2% (100% linear load); ≤3% (100% non-linear load)			
Efficiency		≥96%			
Communication Interface		RS232, RS485, 2 Intelligent Slots (Dry contact available), Dry contacts;SNMP(optional)			
Battery &Charger	Battery Voltage	±180Vdc ～ ±300Vdc (10~50 battery cells optional)			
	Charging Current (Power Module)	20A max			
Environment	Operating Temperature	0℃~40℃			
	Humidity	0~95% non-condensing			
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PRODUCT CATALOG

UPS System
Voltage Stabilizer
Transformer

VFD Inverter
Soft Starter
Solar Inverter

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BKPOWER

BKPOWER TECHNOLOGY CO., LTD.

Web: www.bkpower.cn
Mob: +86-15815513204
Email: sales@bkpower.cn
Add:217, Bld B, Duocai Innovation Park, 5 Guanle Rd, Longhua, Shenzhen, China

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