



- **Power range:** 40~1200kVA (3-Level PF: 1.0)
- **Mode:** 3 phase input and 3 phase output
- **Module:** 40/50/60kVA



Modular Design

- Fully modular architecture including power, bypass, monitoring, and ECU control modules for flexible system integration
- All key modules (power, bypass, monitoring, ECU) are hot-swappable, allowing maintenance without system shutdown

High Reliability

- Wide input voltage range from 138–485 V; UPS derates to 40% when input voltage drops below 305 V
- Multiple digital buses and redundant parallel control ensure continuous operation even if a single circuit fails
- System maintains operation in both single and parallel configurations in the event of module failure
- Thick conformal coating provides enhanced protection in harsh environments such as high temperature, high humidity, and dusty conditions

Green & Energy-Saving

- High input power factor up to 0.99
- Advanced 3-level topology with online efficiency up to 96%
- Total harmonic distortion (THDi) < 3% at 100% linear load
- Configurable sleep mode reduces energy consumption under light-load conditions

LBS (Load Bus Synchronization) Function

- Enables two independent UPS systems to operate in synchronization, significantly improving overall system reliability

VRLA & Lithium Battery Compatibility

- Supports both VRLA and lithium battery technologies

Parallel Redundancy

- Supports parallel expansion of up to 8 UPS units
- Allows battery sharing among parallel UPS systems

Strong Load Capability

- Output power factor of 1.0, supporting 100% unbalanced loads
- High adaptability to various load types, including fully inductive or capacitive loads

Intelligent Management

- Equipped with a 7-inch color touch LCD (standard) and 10-inch display (optional)
- Supports event history and fault log recording with export capability
- Multiple communication interfaces: SNMP, RS232, RS485, BMS, and dry contacts
- Online firmware and software upgrades supported (via bypass mode)
- Equipped with EPO and REPO functions for emergency power control

Generator Compatibility

- Power Walk-In function minimizes inrush current during startup, reducing generator capacity requirements

To Order

Ordering information on page 3.

Technical Specification

MODEL		BPM9-80	BPM9-200	BPM9-300
Capacity (VA/W)	UPS Cabinet	80~320k	200~1000k	300~1200k
	Module	40	50	60
	Max. Number	2/3/5/8	4/6/8/10/12/16/20	5/10/14/18/20
Max. Parallel Number		8		
INPUT				
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)		
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load		
Power Factor		≥0.99		
Harmonic Distortion (THDi)		≤3% (100% Linear load)		
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% -20%, -30%)		
Bypass Frequency Range (Hz)		50/60±10%		
OUTPUT				
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)		
Voltage Regulation		±1%		
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1z); Bat. mode: (50/60±0.1%)		
Crest Factor		3:1		
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load		
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter		
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms		
EFFICIENCY*				
AC Mode		Up to 96%		
ECO Mode		Up to 99%		
HECO Mode		Up to 99%		
BATTERY				
Battery Type		VRLA/Li-ion		
Battery Voltage (Vdc)		360~600		
Charging Current (Max.)(A)		20		
MANAGEMENT				
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Alarm		Line Failure, Battery Low, Overload, System Fault		
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)		
SYSTEM FEATURES				
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
Self-diagnostics		Upon Power On and Software Control		
Generator Input		Support		
EPO		Shut down UPS immediately		

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To Order

To place an order, use the contact details below.

Technical Specification Continued

ENVIRONMENTAL				
Operating Temperature (°C)		0~40		
Storage Temperature (°C)		-25~55		
Humidity Range		0~95% (Non condensing)		
Altitude (m)		<1000, derating required when >1000		
Noise Level (dB)		<66	<73	
PHYSICAL				
Dimension WxDxH (mm)	UPS Cabinet (S/F)	80/120kVA: 600×850×1200 200/320kVA: 600×850×2000	200/300/400kVA: 600×850×2000 500/600kVA: 1200×850×2000 800/1000kVA: 2000×850×2000	300kVA: 600×850×2000; 600kVA: 1200×850×2000 840/1080kVA: 2000×850×2000; 1200kVA: 2200×850×2000
	Power Module	440×620×130		
Weight (kg)	UPS Cabinet	80kVA: 155; 120kVA: 165; 200kVA: 270; 320kVA: 290	200kVA: 270; 300kVA: 290; 400kVA: 310; 500kVA: 650; 600kVA: 720; 800kVA: 980; 1000kVA: 1080	300kVA: 290; 600kVA: 720; 800kVA: 980; 1080kVA: 1080; 1200kVA: 1200
	Power Module	33	34	35
STANDARDS				
Safety		IEC/EN 62040-1, IEC/EN 62477-1		
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)		

*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions. S: Without or only with one maintenance bypass breaker
F: With mains, bypass, maintenance bypass and output breakers
1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design



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