# SPM9930M - MODULAR UPS (3 Phase In / 3 Phase Out)

## 25kVA ~ 200kVA

#### **PF 1.0**

#### **Features**

- Advanced dual-core DSP control technology
- True On-line, double conversion power protection, and with strong load capacity
- Compact footprint, modular Hot-swappable design simplifying maintenance and scalability
- High efficiency up to 96% in on-line mode, 99% efficiency in ECO mode
- Dual input design, independent bypass available, improving bypass availability
- Output power factor 1.0, input power factor  $\geq$  0.99, input THDi  $\leq$  3%, output THDv  $\leq$  1%
- $\bullet\,$  138  $\sim\,$  485 Vac wide input voltage range, 50 Hz / 60 Hz grid self-adaptive
- Frequency conversion available: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Advanced digital parallel technology, improving redundancy and reliability in system
- Flexible charger parameter and battery configuration settings, battery number 30 ~ 46 pcs selectable
- Compatible with lead-acid battery and lithium battery, suitable for different types of battery configuration requirements
- Support cold start with battery and auto restart with mains power
- Settable delay time for startup when the mains power is restored, reducing the impact on the grid or generators
- Fan speed varies intelligently with temperature, reducing noise and extending the service life of the fan
- Fault-tolerant design for fan system, taking 35% loads when any one of fans fails
- Superior hardware and software protection function, robust self-diagnostic function, and abundant event log
- Hibernation function to improve the system efficiency at light loads and extend the service life of UPS
- Powerful background software for parameters configuration and online updating
- 7 inches LCD touch screen, friendly human-machine interface
- Multi-platform communications: RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card and GPRS card
- Intelligent battery management, automatic floating/equalizing charge control, battery self-diagnosis control, SOC detection, SOH detection and charger hibernation control, extending battery lifespan

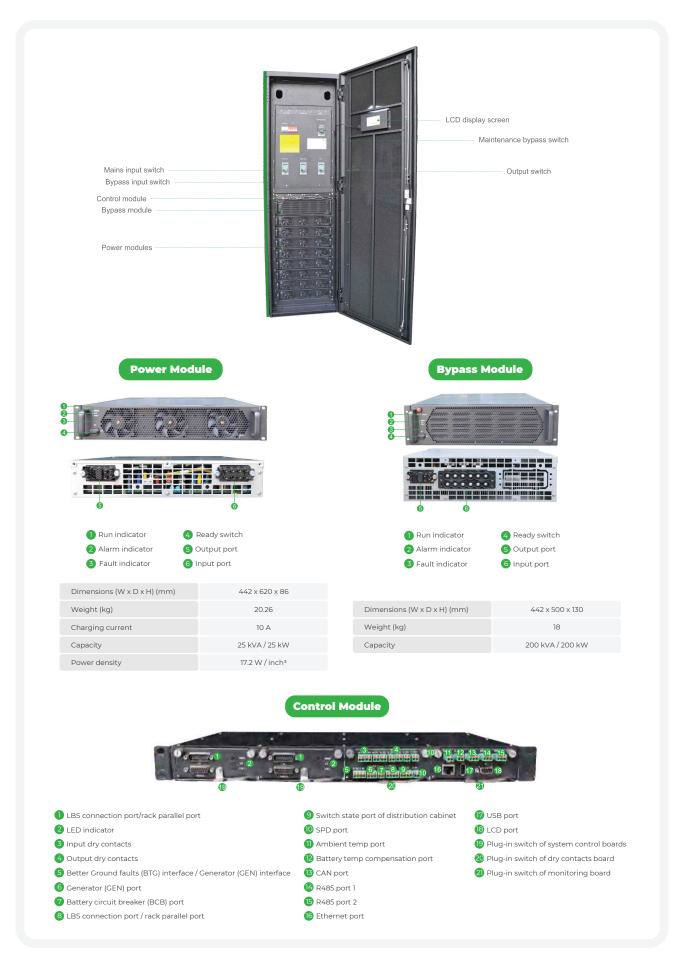








PRODUCT DATASHEET



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PRODUCT DATASHEET

### Specifications

MODEL	SPM993100M	SPM993200M	
Rated capacity	100 kVA / 100 kW	200 kVA / 200 kW	
Number of power module	4	8	
Rated capacity of power module	25 kVA / 25 kW		
INPUT			
Input wiring	Three-phase five-wire (30 + N + PE)		
Rated voltage	380 Vac / 400 Vac / 415 Vac		
Voltage range	138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating)		
Frequency range	40 ~ 70 Hz		
Input power factor	≥ 0.99		
THDI	≤ 3%		
Bypass input voltage range	-60% ~ +25% (settable)		
Battery voltage	± 240 Vdc (±180 ~ ± 276 Vdc settable		
Number of battery	40 pcs 12 V batteries (30, 32, 34, 36, 38, 40 42, 44, 46 pcs settable)		
OUTPUT			
Output wiring	Three-phase five-wire (30 + N + PE)		
Rated voltage	380 Vac / 400 Vac / 415 Vac		
Output voltage regulation accuracy	± 1%		
Output frequency accuracy	Synchronized with $$ utility in mains power mode; 50 Hz / 60 Hz $\pm$ 0.1% in battery mode		
Output power factor	1		
Output waveform distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)		
Crest factor	3:1		
Overload capacity	105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s		
SYSTEM	STEM		
Max. efficiency	96% in on-line mode, 99% in ECO mode		
Transfer time	0 ms		
Max. number of parallel connections	2		
Protections	Short-circuit, overload, over-temperature, battery low voltage, undervoltage, overvoltage, fan failure protection		
Communications	Standard configurations: RS485, CAN, NET, SNMP, dry contacts port, and EPO Optional configurations: Wi-Fi card, parallel port, LBS port, CPRS card, Battery temperature sensor, EMD and SMS alarms		
Display	7 inches LCD touch screen	7 inches LCD touch screen	
ENVIRONMENTAL			
Operating temperature	0°C ~ 40°C		
Storage temperature	-25℃ ~ +55℃ (without battery)		
Relative humidity	0% ~ 95% (non-condensing)		
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m		
Protection level	IP 20		
Noise	≤ 65 dB (at 1 m)		
OTHERS	RS		
Cabinet dimensions (W x D x H) (mm)	600 x 850 x 1200	600 x 850 x 2000	
Cabinet weight (kg)	180	280	
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m		
Protection level	IP 20		
Noise	≤ 65 dB (at 1 m)		

\* All specifications are subject to change without notice

