

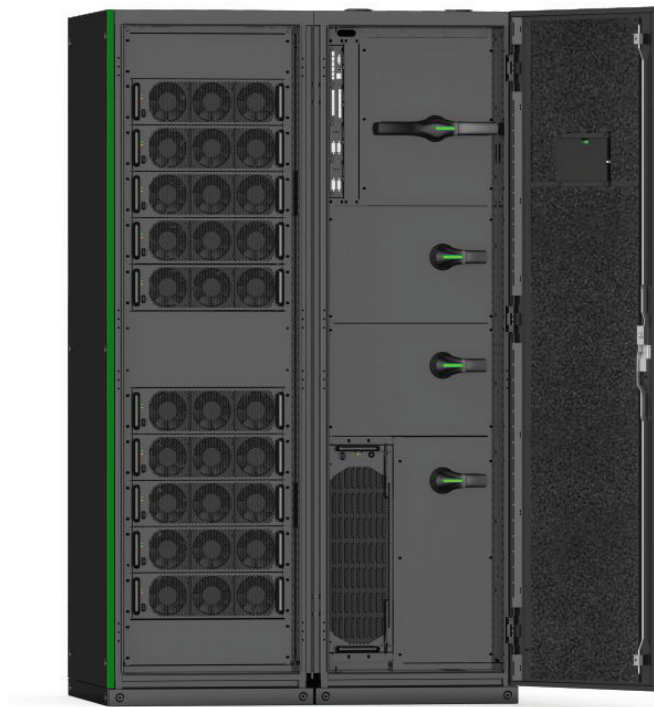
SPM9930M - MODULAR, HI-SERIES SCALABLE UPS (3:3)

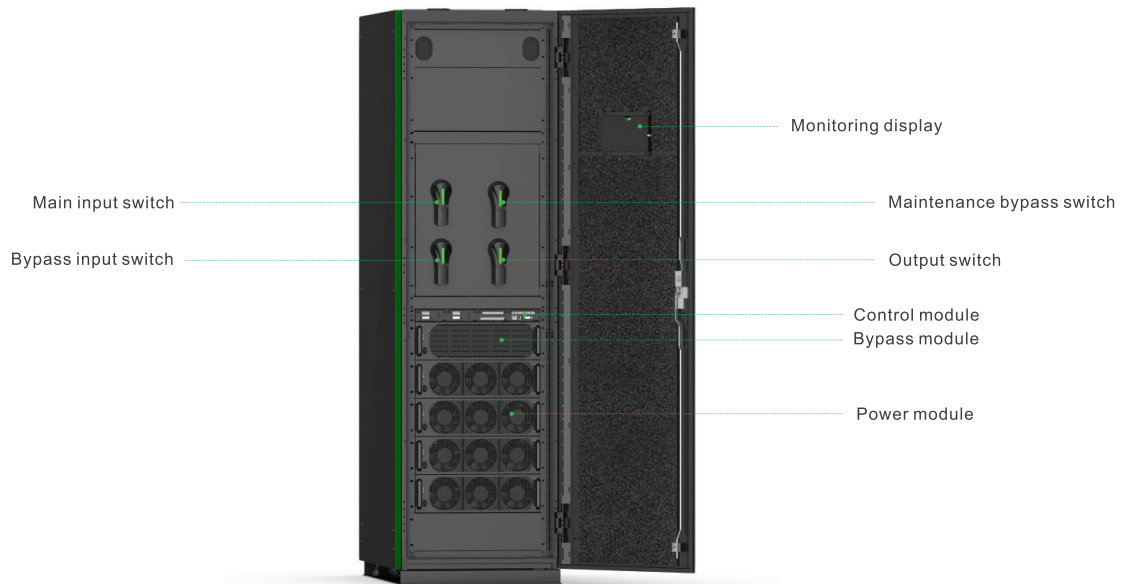
50kVA ~ 600kVA

PF 1.0

Features

- Dual DSP digital control technology
 - Flexible modularity and easy scalability with all hot-swappable module design
 - High efficiency at low load rate: 96% at 40% rated load and 95% at 20% rated load
 - High power density of 50 kVA / 3U power module
 - Wide input voltage range, high grid adaptability, strong load adaptability and strong overload capability
 - Small footprint (500 kVA system only 1.02 m2 footprint)
 - Inbuilt integrated PDU system, easy installation and saving investment
 - Input power factor > 0.99, THDi < 3%, environment friendly and high-efficiency and energy-saving
 - Soft-start technology improves generator matching up to 1:1.1
 - Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
 - Intelligent hibernation design enables UPS to operate efficiently at low load rate to prolong service life and improve the system efficiency.
 - Advanced parallel expansion technology, support 4 units in parallel
 - Share battery pack in parallel operation, saving user's battery cost
 - Flexible charger parameter and battery configuration setting, numbers of battery 30 ~ 46 pcs selectable
 - Intelligent battery management (Intelligent charge / discharge management and float charging voltage temperature compensation), extending battery lifespan
 - Support battery cold start and utility self boot
 - Self-aging function, easy debugging and test on site
 - Fault-tolerant design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails
 - Front accessible maintenance, top / bottom cable entry compatible
 - Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
 - 7 inches LCD touch screen, friendly human-machine interface
- Monitoring unit with built-in SNMP, supports RS485 and dry contacts





Power Module



Bypass Module



Control Module



- ① Parallel port
- ② LED indicator
- ③ Dry-In
- ④ Dry-Out
- ⑤ BTG port
- ⑥ BCB port
- ⑦ BCB tripping signal
- ⑧ EPO port

- ⑨ Switch state port of power distribution cabinet
- ⑩ RS485 port 2
- ⑪ SPD port
- ⑫ Ethernet port
- ⑬ Environmental temperature port
- ⑭ USB port
- ⑮ Battery temperature compensation port
- ⑯ CAN port

- ⑰ RS485 port 1
- ⑱ RS485 port 2
- ⑲ Ethernet port
- ⑳ USB port
- ㉑ LCD screen port

Specifications

MODEL	SPM933200M	SPM933300M	SPM933400M	SPM933500M	SPM933600M
Rated capacity	200 kVA/200 kW	300 kVA/300 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW
Numbers of power modules	4	6	8	10	12
Rated capacity of power module	50 kVA				
INPUT					
Input wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	138 ~ 485 Vac (304 ~ 485 Vac without power downgrading; 138 ~ 304 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	≥ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 240 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)				
Number of battery	40 pcs12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable)				
OUTPUT					
Output wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac ± 1%				
Frequency	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min				
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96.50%				
Max. number of parallel connections	4 units				
Transfer time	0 ms				
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40°C				
Storage temperature	-40°C ~ +70°C				
Humidity	0 ~ 95%(non-condensing)				
Altitude	≤1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB				
Cabinet dimensions (W x D x H) (mm)	600 × 850 × 2000		1200 × 850 × 2000		1400 × 850 × 2000
UPS module dimensions (W x D x H) (mm)	440 × 620 × 130				
Cabinet weight (kg)	233	242	415	465	617
Power module weight (kg)	32				