

SPM9330 - POWER SMART, ONLINE UPS (3:3)

10kVA ~ 60kVA

PF 1.0



Features

- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger (Max.10 A & 20% output power)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232,USB,RS485,dry contacts, SNMP card,Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232,USB,RS485,EPO,Dry contacts,Parallel port
- Optional SNMP card,WI-FI card,GPRS card, SMS alarms

MODEL	SPM93310	SPM93315	SPM93320	SPM93330	SPM93340	SPM93360
Rated frequency	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT						
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)					
Voltage range	304~478 Vac (L-L), full load 228 V ~ 304 Vac (L-L), load decrease linearly according to the min phase voltage					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	> 0.99					
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Total harmonic distortion (THDi)	<3% (Linear Load)					
Bypass overload	125%: Long term operation; 125% ~ 130%: 10min; 130%~150%: 1min; 150%~400%: 1s; > 400%, less than 200ms					
OUTPUT						
Rated Voltage	380 / 400 / 415 Vac (3Φ + N + PE)					
Voltage precision	±1% (Linear Load)					
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ± 0.1% in battery mode					
Waveform	Sinusoidal					
Power Factor	1					
Total harmonic distortion (THDv)	<1% (full Linear Load); <3% (full non-linear load according to IEC/EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%, 1min; >150%, 200ms					
BATTERIES						
DC voltage	Long time model: ±240VDC(Selectable, 32 - 40pcs)					
Standard model battery voltage	(10 + 10) x 9 AH	(20 + 20) x 7 AH	(20 + 20) x 9 AH	(15 + 15) x 9 Ah x 2 strings	(20 + 20) x 9 Ah x 2 strings	/
Charging current	10A max				15A max	20A max
Charger Voltage precision	1%					
SYSTEM						
Display	5 inch touch screen					
Efficiency	95% Max.				96% Max.	
Transfer time	0 ms					
Interface	Standard: RS232, RS485, USB, battery cold start Option: Programmable dry contact, SNMP, parallel kit					
ENVIRONMENT						
Operating temperature	0°C ~ 40°C					
Storage temperature	-40°C ~ 70°C					
Relative humidity	0 ~ 95% (Non-condensing)					
Altitude	<1000m, Load derated 1% per 100m From 1000 ~ 2000m					
Noise level at 1m	55dB Max.			62dB Max.		
OTHERS						
Dimensions (W × D × H) (mm)	250 x 720 x 560(S) 250 x 720 x 560(H)	250 x 800 x 700(S) 250 x 720 x 560(H)		250 x 840 x 930(S) 250 x 840 x 650(H)	250 x 800 x 1280(S) 250 x 720 x 560(H)	250 x 720 x 560(H)
Packaged dimensions W × D × H (mm)	350 x 800 x 722(S) 350 x 800 x 718(H)	350 x 900 x 862(S) 350 x 800 x 718(H)		250 x 950 x 1102(S) 350 x 980 x 810(H)	450 x 900 x 1400(S) 350 x 800 x 718(H)	350 x 800 x 718(H)
Net weight (kg)	82 (S) 31 (H)	131 (S) 33 (H)	145 (S) 33 (H)	215 (S) 42 (H)	300 (S) 42 (H)	48 (H)
Gross weight (kg)	93 (S) 40 (H)	142 (S) 42 (H)	156 (S) 42 (H)	227 (S) 52 (H)	310 (S) 52 (H)	58 (H)

- * Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA / 60kVA model
- * **S** means standard model, **H** means long time model
- * All specifications are subject to change without notice
- * Custom-made specifications are acceptable