



SUPREME
Smart Innovation

Power Up, Even When the Lights Go Out



PREMIUM SERIES
**UNINTERRUPTIBLE
POWER SUPPLY**

(1kVA ~ 3kVA)

SPM9100

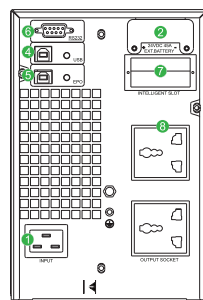
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Features

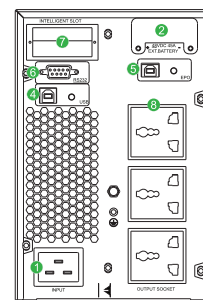
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4 h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2 / 3 kVA only)

Rear Panel

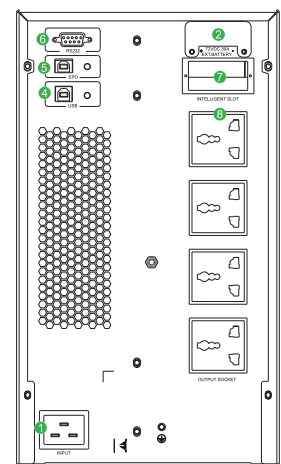
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (optional)
5. EPO (optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



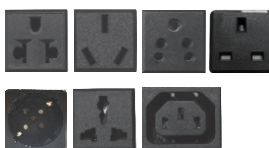
1KS / 1KH



2KS (DC48V) / 2KH / 3KH



2KS (DC72V) / 3KS



Optional Outlets

MODEL	SPM9101			SPM9102			SPM9103		
Voltage range	1 kVA / 1kW			2 kVA / 2kW			3 kVA / 3kW		
INPUT									
Rated voltage	208 / 220 / 230 / 240 Vac								
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)								
Frequency	50 / 60 Hz \pm 5 Hz (auto-sensing)								
Power factor	\geq 0.99								
Bypass voltage range	- 40% ~ +20% (settable)								
Rate Input Frequency	50 Hz / 60 Hz (auto-sense)								
Total harmonic distortion (THDi)	\leq 6%								
OUTPUT									
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)								
Voltage regulation	\pm 1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz \pm 0.1 Hz (battery mode)								
Waveform	Sinusoidal								
Power factor	1.0								
Total harmonic distortion (THDv)	\leq 2% (linear load), \leq 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 30 min, 110% ~ 130% for 10 min, 130% ~ 150% for 3 s, > 150% for 200 ms								
BATTERIES									
Battery type	Sealed lead acid maintenance-free battery								
DC voltage	24 V (S)	36 V (S)	36 V (H)	48 V (S)	72 V (S)	72 V (H)	72 V (S)	96 V (S)	96 V (H)
Inbuilt battery	2 \times 9 Ah	3 \times 7 Ah	/	4 \times 9 Ah	6 \times 7 Ah	/	6 \times 9 Ah	8 \times 7 Ah	/
Charging current (max.)	Standard model: 1A, Long time model: 12A (1 ~ 12A Settable)								
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery								
SYSTEM									
Efficiency	\geq 94.5% (Mains mode)			\geq 95.5% (Mains mode)					
	\geq 89.5% (Battery mode)			\geq 91.5% (Battery mode)					
	\geq 97.5% (ECO mode)			\geq 98.5% (ECO mode)					
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)								
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection								
Communications	RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)								
Display	LCD + LED								
ENVIRONMENT									
Operating humidity	0 ~ 95% RH @ 0° ~ 40°C (Non-condensing)								
Storage temperature	-25°C ~ 55°C (without batteries)								
Operating altitude	\leq 1000 m, above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1m	\leq 50 dB								
OTHERS									
Dimensions (W \times D \times H) (mm)	144 \times 312 \times 216	144 \times 317 \times 216	144 \times 336 \times 216	144 \times 417 \times 216	191 \times 419 \times 335	144 \times 217 \times 216	191 \times 419 \times 335		144 \times 417 \times 216
Packaged dimensions (W \times D \times H) (mm)	230 \times 402 \times 315	230 \times 460 \times 315	230 \times 402 \times 315	230 \times 506 \times 315	277 \times 500 \times 435	230 \times 506 \times 315	277 \times 500 \times 435		230 \times 506 \times 315
Net weight (kg)	9.5	11.3	4.5	16.4	23.1	6.5	22.8	27.9	6.5
Gross weight (kg)	10.5	12.3	5.5	17.9	24.6	8.0	24.3	29.4	8.0

- * Derate capacity to 90% when the output voltage is adjusted to 208 Vac
- * **S** means standard model, **H** means long time model
- * All specifications are subject to change without notice
- * Custom-made specifications are acceptable

SPM9100



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