

SPM9100 SERIES

1KVA~10KVA (1/1)

Supreme True Online Double Conversion Single Phase Uninterruptible Power Supply with DSP Control Technology

Ideal for Centralised Servers, ATMs, Office and Medical Equipments

Features

- High frequency and true double-conversion
- DSP digital control technology
- Input power factor correction (PFC)
- Wide input voltage range (110V-300V)
- Output power factor 0.9
- Cold start
- Frequency adaptive
- ECO mode operation for energy saving
- Selectable output voltage via LCD
- Selectable battery low voltage via LCD
- Automatically diagnose when starts
- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatically charging battery at UPS off mode
- Fan speed auto control when load varies
- Standard RS232 communication port
- Optional USB/SNMP communication port
- Optional emergency power off (EPO)
- Optional extension battery bank
- Optional built-in isolation transformer
- Output bypass settable via LCD for 1-3KVA
- 50Hz/60Hz frequency converter mode available on 6-10KVA
- Optional manual bypass on 6-10KVA
- Optional N+X redundancy parallel on 6-10KVA

Rear Panel

- | | |
|------------------|-----------------------------|
| 1. AC Input | 8. EPO (Optional) |
| 2. Modem/Tel/Fax | 9. SNMP/AS400(Optional) |
| 3. DC Input | 10. Manual Bypass(Optional) |
| 4. Outlet | 11. Breaker |
| 5. FAN | 12. Parallel Card(Optional) |
| 6. RS232 | 13. BAT_NTC(Optional) |
| 7. USB(Optional) | 14. Overcurrent Protection |



Optional socket



Specifications

MODEL	SPM9101	SPM9102	SPM9103	SPM9106	SPM9110
Capacity	1KVA/900W	2KVA/1800W	3KVA/2700W	6KVA/5400W	10KVA/9000W
INPUT					
Rated Voltage	208V/220V/230V/240VAC				
Voltage Range	Half load(120-300) ±5VAC; Full load (140-300) ±5VAC				
Frequency	40-70Hz (Auto-Sense)				
Power Factor	≥0.98			≥0.99	
Bypass Voltage Range	Rated output voltage-34V~ Rated output voltage+32V			160V ~ Rated output voltage+32V	
OUTPUT					
Voltage	208V/220V/230V/240VAC Setting available via LCD				
Voltage Regulation	±1%				
Frequency	45-55Hz or 55-65Hz (Synchronized range); 50/60 ±0.2Hz (Battery mode)				
Waveform	Pure sine wave				
Crest Factor	3:1				
Harmonic Distortion	≤2%(Linear load) ; ≤5%(Non-linear load)				
Transfer Time	AC mode to battery mode :0ms Inverter model to bypass mode:4ms(Typical)			AC mode to battery mode :0ms Inverter model to bypass mode:0ms	
Overload Capability	105% - 150%: Transfer to bypass after 30s; >150%: Transfer to bypass after 300ms			105%-125%: Transfer to bypass after 3mins; 125%-150%: Transfer to bypass after 30s; >150%: Transfer to bypass after 100ms	
EFFICIENCY					
AC Mode	≥90%			≥92%	
Battery Mode	≥87%			≥91%	
ECO Mode	≥94%			≥98%	
BATTERY					
DC Voltage	36V	72V	72V	192V	
Inbuilt Battery of Standard Model	3x7Ah	6x7Ah	6x9Ah	16x7Ah	16x9Ah
Charge Current	Standard Model	1A			
	Long Time Model	6.5A	6A	1A/3A/5A/8A(Settable)	
Typical Recharge Time	8 hours recover to 90% capacity				
ALARM					
Utility Failure	Beep/4s				
Battery Low	Beep/1s				
Overload	Beep Twice/1s				
UPS Fault	Long Beep				
ENVIRONMENT					
Humidity	20-90% RH @ 0-40°C(non-condensing)				
Noise Level	≤50dB (1m)			≤55dB (1m)	
MANAGEMENT					
Standard RS-232 ,Optional USB	Supports Windows® 98/2000/2003/XP/Vista/2008/ Windows® 7/8				
Optional SNMP	Power management from SNMP manager and web browser				
PHYSICAL					
Dimension(mm) WxDxH	144x410x215	190x452x334		262x514x455(H),262x514x735(S)	
Packing Dimension(mm) WxDxH	231x492x316	320x550x462		365x605x610(H),390x625x937(S)	
Net Weight(kg)	6.0(H),11.4(S)	11.2(H),21.3(S)	12.5(H),26.7(S)	22.1(H),64.1(S)	22.8(H),70.8(S)
Gross Weight(kg)	7.3(H),12.7(S)	13.3(H),23.5(S)	14.6(H),29.1(S)	25.2(H),72.2(S)	25.9(H),78.9(S)

● Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208VAC.
● S means standard model, H means long backup time model.

● All specifications subject to change without notice.
● Custom-made specifications are acceptable