POWER SOLUTIONS



SM Series

Online UPS 1kVA to 10kVA 1-Phase Input; 1-Phase Output



TYPICAL APPLICATIONS



Telecom local Area E-Business Servers Cash Registers Security Network

Real VFI / double conversion online technology suitable for safe supply application-critical consumers in the IT environment such as workstations, servers, storage systems, as well as in the area of sensitive switching and control systems.

The multilingual graphical LCD display provides all the important operating states and values that can be stored and retrieved in addition to real-time data storage in plain text.

GREEN POWER

Input power factor up to 0.996, Low THDi (< 5%), decrease the pollution to city power. Compliance with RoHS standard, innocuous and environmental friendly. Design in accordance to International EMC and Safety standard.

SAVE YOUR MONEY

AC/AC efficiency up to 94%, electric bill saved equals to one new UPS in 2 years. Output power factor up to 1.0, load capability increases by 30% than common UPS. Intelligent fan speed management, help to decrease operating cost.

MAIN CHARACTERISTICS

- VFI topology (online / double conversion) protection against all mains network problems.
- Extremely wide input voltage window of 120 VAC to 295 VAC without stress on the internal battery system
 and with a stable output voltage.
- ECO and frequency operating voltage possible
- Expansion slot for SNMP, potential free contacts, remote display
 - Graphic LCD display with interactive multilingual user interface



MODEL	SM1000	SM2000	SM3000	
Power Ratings (KW)	1000 VA	2000 VA	3000 VA	
2 、 /	UPS INPUT			
Input Voltage	208/220/230/240 VAC			
Voltage range without battery mode	120 - 295 VAC			
Frequency (Auto Selection)	50/60 ± 10% (50/60 Hz auto-sensing)			
Power Factor	≥ 0.99			
THDi	< 5%			
	UPS OUTPUT			
Output Voltage	20	208/220/230/240 VAC (Adjustable)		
Frequency (Hz)	50/60 Hz ± 0.1 (Battery Mode)			
Power Factor	0.9 (1.0 Optional)			
THDv	THD < 2% (Linear Load) , < 5% (Nonlinear Load)			
Voltage Waveform	Pure Sine Wave			
Transfer Time	0 ms (Without Interruption)			
Efficiency	94.2%	94.6%	94.2%	
Overload	101 % - 115 % for 1 M	in. , 116 % - 133 % for 1 Sec. , abov	ve 134 % for 200 ms	
Crest Factor	3 : 1			
Short Circuit Response	Short circuit proof (3 x In for 100 ms) BATTERY			
Туре	Sealed Lead Acid maintenance - free .			
Voltage (VDC)	24	48	72	
Battery Size	2x12v 9AH	4x12v 9AH	6x12v 9AH	
Charger Current (A) Max.	1 , (4 Optional)	1 , (4 Optional)	1 , (4 Optional)	
Charging time (to 90 %)		5 h		
Battery Management	Exhaustive discharge protection / Protection against excess load Automatic battery test			
	(daily, weekly, monthly)			
	COMMUNICATION			
Communication Interface	RS232+USB (RS485, Dry contact and SNMP optional)			
User interface / failure indication	3 LED's with traffic light display, detailed indication via LCD display (acoustic/visual) (alarms: at mains failure, overload, battery charging, battery replacement,			
	fan fault data logger	fan fault data logger – with clear text display incl. Date and time history)		
		PROTECTION / ALARM		
Protection	-	Low battery, overload, short-circuit and over temperature		
Alarms		oattery, abnormal AC input, UPS fa	illure	
		GENERAL DATA		
Audible Noise (1 m distance)	< 50	< 55		
Operation Temperature	-5 to 40 °C			
Relative Humidity	0 to 95% No Condensation			
Operation Altitude	Up to 1000 m @ nominal load			
Dimension (WxDxH) mm	145x360x225	190x400x	330	
Weight (Kg)	9.2	17.7	22.9	

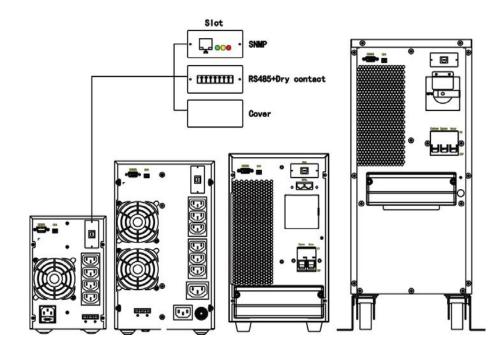


MODEL	SM6000	SM10000	
Power Ratings	6000 VA	10000 VA	
	UPS INPUT		
Input Voltage	208/220/230/240 VAC		
Voltage range without battery mode	120 - 295 VAC		
Frequency (Auto Selection)	50/60 ± 10% (50/60 Hz auto-sensing)		
Power Factor	≥ 0.99		
THDi	< 5%		
	UPS OUTPUT		
Output Voltage	208/220/230/240 VAC (Adjustable)		
Frequency (Hz)	50/60 Hz ± 0.1 (Battery Mode)		
Power Factor	0.9 (1.0 Optional)		
THDv	THD < 1% (Linear Load) , < 4% (Nonlinear Load)		
Voltage Waveform	Pure Sine Wave		
Transfer Time	0 ms (Without Interruption)		
Efficiency	95%	95%	
Overload	101 % - 115 % for 1 Min. , 116 % - 133	% for 1 Sec. , above 134 % for 200 ms	
Crest Factor	3 : 1		
Short Circuit Response	Short circuit proof (3 x In for 100 ms)		
	BATTERY		
Туре	Sealed Lead Acid maintenance - free .		
Voltage (VDC)	192	192	
Battery Size	16x12v 7AH	16x12v 7AH	
Charger Current (A) Max.	1~8(Adjustable)	1~8(Adjustable)	
Charging time h (to 90%)	5		
Battery Management	Exhaustive discharge protection / Protection against excess load Automatic		
	battery test (daily, weekly, monthly)		
	COMMUNICATION		
Communication Interface	RS232+USB (RS485, Dry contact and SNMP optional)		
User interface / failure indication	3 LED's with traffic light display, detailed indication via LCD display (acoustic/visual) (alarms: at mains failure, overload, battery charging, battery replacement, fan fault data logger – with clear text display incl. Date and time history)		
	fan fault data logger – with clear text	display Inci. Date and time history)	
	PROTECTION /	ALARM	
Protection	Low battery, overload, short-circuit and over temperature		
Alarms	Low battery, abnormal AC input, UPS failure		
	GENER	AL DATA	
Audible Noise dB (1 m distance)	< 55		
Operation Temperature °C	-5 to 40		
Relative Humidity	0 to 95% No Condensation		
Operation Altitude	Up to 1000 m @ nominal load		
Dimension (WxDxH) mm	230x5	02x553	
Weight (Kg)	54.5	56.2	



AVAILABLE SOCKET





CONFORMITY





SATRON Power Solutions Approach your local SATRON Power Solutions representative for further support. Contact details can be found on: www.satronpower.com

