

Model : ON-SP5000 / ON-SP6500

Extra Smart UPS, Tower, 5000VA / 6500VA

General Features:

- Smart backup time estimation (EBT system)
- Adjustable voltage sensitivity, voltage-transfer points & charging voltage
- Generator compatible
- Automatic restart of loads after UPS shutdown
- Smart AVR function (Two buck / boost modes)
- Cold-start capable
- Audible alarms
- Smart battery management
- Full function LCD display (LED display optional)
- Network manageable (SNMP optional)
- Intelligent double stages charging control



Output

	115V Models	230V Models
Power Levels rated at nominal inputs	5000VA/3250W ; 6500VA/4225W	
Output Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Voltage Waveform	Sine wave	
Crest Factor	3 : 1	
Output Frequency (sync to mains)	Auto Select for 50/60Hz 47Hz ~ 55Hz for 50Hz nominal 56Hz ~ 65Hz for 60Hz nominal	
Regulation (Nominal)	±5% typical of nominal voltage. (optional at ±8% AVR for wide I/P range)	
Regulation (Battery mode)	±3% of selected output voltage. (adjustable by the setting software)	
Transfer time	Blackout 3ms typical Brownout 1ms typical Battery mode to Normal mode : 1ms typical	
Over current protection	Over load alarm level 100%~120% (adjustable by the setting software) Over load shutdown level 120%~190% (adjustable by the setting software)	

Input

	115V Models	230V Models
Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	47Hz ~ 65Hz, 50/60Hz auto-sensing	
Efficiency	97% (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	

Over current protection	by re-settable over current protector	
Voltage Range	-20% ~ +24% for selected nominal voltage. -29% ~ +33% adjustable by using the setting software.	
AVR Range (Two Bucks/Two Boosts)	Enhanced Buck: +15% for selected nominal voltage. Buck mode: +5% for selected nominal voltage. Boost mode: -5% for selected nominal voltage. Enhanced Boost: -12.5% for selected nominal voltage.	
Surge Protection	324 Joules	660 Joules
☐ Battery		
Battery type	Maintenance -free sealed, valve-regulated, Lead-Acid 5000VA : 12V, 7Ah 6500VA : 12V, 9Ah	
Voltage	60Vdc	
Typical backup time at half-load	11 minutes	
Typical backup time at full load	4 minutes	
Charging method	Smart pulse charging with two charging modes. Quick charging when battery is not fully charged, trickle charging when battery is 90% fully charged.	
Charging time	Less than 3 hours to 90% at normal line and normal temperature.	
Charging current	5000VA / 6500VA : 4A (Average)	
Average charging voltage per battery	Quick charging mode: 14V maximum. Trickle charging mode: 13.2V ~13.9V adjustable by the setting software.	
Protection	Over current protection. (SCR control) Over charging voltage protection. (SCR control) Thermo protection. (CPU control) When temperature inside UPS is over 45°C charger will stop charging for 2.5 minutes followed by an 1.5 minutes charging, the cycle will repeat until the temperate is lower than 44°C.	
Monitoring	Smart monitoring for failed battery or battery open circuit detection and warning Auto-detect each time when power on and auto repeat the detection every 6 days.	
☐ Communications & Management		
Standard Interface port	UPSilon2000 compatible. RS232 + USB, optional for RJ45 (Surge Protection)	
Optional Interface part	DB9, SNMP	
Control panel	LCD or LED Selectable	
Audible alarm	On battery alarm: Low battery alarm, Battery over voltage alarm Over load alarm: Short-circuit alarm, Thermo alarm	

EBT (Estimation of Backup time)	Support for LCD display	
Green mode function (Auto-shutdown during blackout)	1% to 14% of full load (adjustable by using the setting software) The default setting is OFF.	
Environmental and Safety		
Operating Temp.	Up to 1500 meters: 0°C to 40°C (32°F to 104°F)	
Transit/storage Temperature	-15°C to 55°C (5°F to 131°F)	
Relative Humidity	5 - 95% non condensing	
Operating Altitude	0 ~ 3000 meters	
Audible noise at 1M from surface of unit	≤45 dBA	
Safety Markings	BSMI	CE
EMC	Class B, EN50091-2, FCC part15 IEC61000-2-2	
Quality control standard	ISO9001	
Physical		
Dimension : WxDxH (Unit / Shipping)	5000VA / 6500VA : 20 x 51 x 35 (cm) / 32 x 63 x 45 (cm)	
Net Weight (NW/ GW)	5000VA : 54 (kg) / 57 (kg) 6500VA : 56 (kg) / 59 (kg)	5000VA : 50 (kg) / 53 (kg) 6500VA : 52 (kg) / 55 (kg)
Packing	Export carton for each unit, 12 - 16 units per pallet	