

Sun Star Series 1KVA - 3KVA

Sun Star Series 1K-3KVA Li-ion Battery Online UPS

S - Li Series 1KVA - 3KVA (1ph in / 1ph out)



Key Features:

- **Zero Transfer Time**
True Double Conversion Online UPS, provide most comprehensive protect mission critical equipment from wide range power quality issues
- **DSP Digital Control Based**
Advance DSP base digital control bring high performance of high input Power factor, low distortion, supply the load with perfect sine wave AC power supply
- **Li-ion Battery Powered**
Provide up to 3x backup time in 50% dimension, comparing with regular Lead-acid UPS product
- **Li-ion Battery Charger**
Constant current, Constant voltage, Floating, Turn-Off 4 state charger for Li-ion battery, open to customize the logical behavior for customer- specified battery pack
- **Ultra Wide Input Mains Range**
Strong compatible with ultra with electric environment, stay well with ultra wide range mains of 90V~300V, 40~70Hz ,dramatically reduce battery discharge , prolong battery life.
- **Best Loading Capability**
Up to 0.9 Output Power Factor, 50/60 Hz Automatically adapting, selectable voltage, perfectly match all kind of application
- **Genset Compatible**
Capable of work with wide range of Genset, isolate fluctuation and noise from Genset, provide stable and clean power supply to the user equipment.
- **High Input Power Factor**
Thanks to digital controlled PFC Technology, >0.99 input power factor, effectively avoid power pollution, save energy expense for customer
- **Reliable Design**
Made with strong Glass fiber base (FR4) double side PCB, company with large span component, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating, avoid dust accumulation, improve resistant to corrosion.
- **Open to Customization**
Based on powerful controller and open architecture, the product is able to be customized to match need of integration of automatic system or intelligent supervisory system.

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Technical Specification:

Tower Model		S1K-Li	S1KL - Li	S2K-Li	S2KL - Li	S3K-Li	S3KL -Li
Capacity	VA / W	1KVA / 900W		2KVA / 1.8KW		3KVA / 2.7KW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	LN+PE					
	Rated Voltage	208 / 220 / 230 / 240VAC					
	Voltage Range	90-300VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	LN+PE					
	Output Voltage	208 / 220 / 230 / 240VAC					
	Voltage Regulation	±1%					
	Output Frequency	50 / 60Hz ± 4Hz (Sync Mode) / 50 / 60Hz ± 0.1%(Free Run)					
	Waveform	Sine Wave					
	Distortion (THDV%)	<2%(Linear Load); <8%(None-Linear Load)					
	Over load capability	100%~105% continuous. 10Sec.@130%~150% Rated Load		60Sec.@105%~130% Rated Load 0.3Sec.@>150%Rated Load			
Efficiency	Line Mode	90%		91%		92%	
	Battery Mode	87%		88%		89%	
Battery & Charger	Rated Battery Voltage	48 / 51.2VDC (Default for 15 / 16cell of LiFePO4)					
	Battery Capacity	615WH	External Battery Depends	920WH	External Battery Depends	1250WH	External Battery Depends
	Backup Time	>30mins @ Full Load	External Battery Depends	>20mins @ Full Load	External Battery Depends	>20mins @ Full Load	External Battery Depends
	Backup Time 2 (External Battery Module)	51.2V50AH-150mins 51.2V100AH-300mins @ Full Load		51.2V50AH-75mins 51.2V100AH-150mins @ Full Load		51.2V50AH-50mins 51.2V100AH-100mins @ Full Load	
	Charging Current	1-3K Standard Model with Internal Battery:4A 1-2K Long Backup Time Model : 4A / 8A(Optional)/ 12A(Optional) 3K Long Backup Time Model : 6A / 12A(Optional)/ 16A(Optional)					
	Charging Voltage	56.8V(default for 16cell of LiFePO4) / Customized according to battery request					
	Charger Behavior & Protection	CC. CV. Floating. Turn-Off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface					
	Physical	Chassis Style	Tower				
Tower Dimension		1K - 3K: 190*323*420mm			1KL - 3KL: 190*318*368mm		
Tower Net Weight(KG)		10.8	7	16.5	7.3	18	7.9
HMI	LED Display	Mains / Battery status, Load level, battery level, Operation Mode					
	LCD Display with LED indicator	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status					
	Standards Communication	1. RS232 PORT/USB Card (not HID) 2. Dry Contact Interface for BMS control 3. ModBUS For BMS interface					
	Optional Extension Card	1. Network Card: Support SNMP/TCP/IP for remote monitoring the UPS via Smart Phone APP, Web page,PC Monitor Software , Support Server / NAS shutdown 2. RS485-Modbus Card, LAN(TCP IP)-ModBUS Card, 3. Mini AS400 Relay Card					
Operating Environment Endurance	Temperature Range	-10~50℃					
	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					
*Product Specifications are Subject to Change Without Notice.							