

Specifications of Portable Storage Station System

SHX500A(500WH)

GenixGreen
[2021-01-11]

Model No.	SHX500A
Product Name	Portable Storage Station System (500WH)
File Version	V1.0
File No.	PR-CT-IDP-005
Controlled No.	
Date	

制定 Draft	审核 Checked	批准 Approval

Revision Record

Versions	Modified Contents	Date	Revised/Drafted
V1.0	First Draft	2021-01-11	

[GenixGreen-confidential Fiel –V0]

1、Scope of Application

This specifications only applied to portable power (SHX500A-500) provided by GENIXGREE

2、Technical Specification

No.	Item	Name	Specifications	Remark	
1	Display System	Type	LED Screen	Battery Indicator	
		Size	55×15 mm		
		Background light	Green		
2.	Battery	Type	LiFePO4		
		Rated Capacity	500Wh		
		Rated Voltage	12.8V		
		Cycle life	3000 Times		
3.	BMS	Discharge characteristic	Continuous Current	60A	
			Over current protection	180A	
		Charge characteristic	Charge Voltage	14.8V	
			Charge Current	≦ 10A	
		Over-charge Protection	Single cell Cut-off voltage	3.85V	
			Single cell Recovery Voltage	3.75V	
		Over-discharge Protection	Single cell Cut-off Voltage	2.0V	
			Single cell Recovery Voltage	2.5V	
		Over-current Protection	Cut-off current	180A	
			Release condition	Release load	
Short Circuit Protection	Short Circuit Protection	Enable			
	Recovery condition	Disconnects the load and automatically restores the load			
Self-consumption current	Current	30 μ A			
4.	Charging Input	AC Charging Input	Rated Input Voltage (V)	220V 50HZ / 110V 60HZ	
			Over-current Protection	Yes	
			Adapter	AC to DC plugs	
	Solar PV Charging Input	Interface Type	Aviation connector connect		
		Rated Input Voltage (V)	18V		
		Input Voltage Range(V)	12.8 -18 V		
		Input Current (A)	Max 10A		

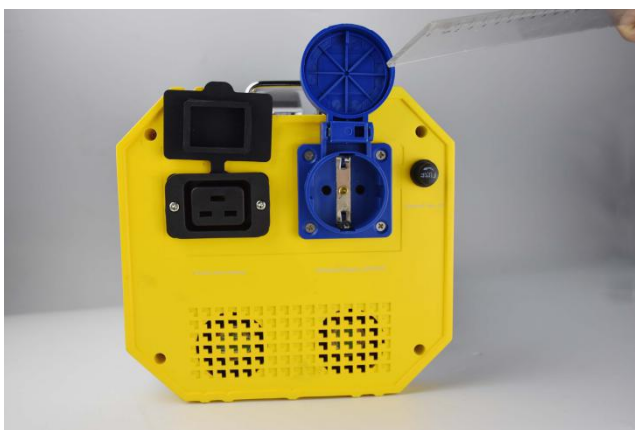
			Reverse polarity protection	Yes	
5.	5V DC USB	USB 5V Output	Interface Type	2pcs USB	
			Output Voltage	5V	
			Output Current	USB2.1A	
			Over-current Protection	YES	
6.	12V DC Output	12V DC Output	Interface Type	DC5.5*2.1	
			Output Voltage (V)	8-14.6V	
			Output Current (A)	12A	
			Over-current Protection	YES	
8.	AC Output	On/Off Mode	Rocker Switch	Rocker Switch	
		AC Output	Output Waveform	Pure Sine wave	
			Output Voltage	220V±10%	
			Output Frequency	50HZ	
			Output power	Rate 500W Max 550W	
			No-load Power Consumption	3W	
			Inversion Efficiency	More than 88%	
		Protection Functions	Low-voltage Protection(Battery)	8V	
			High-voltage Protection(Battery)	15.4V	
			Under-voltage Output Protection	YES	
			Over-voltage Output Protection	YES	
			Over-load Output Protection	YES	
			Short-circuit Output Protection	YES	
			Released condition of Short-circuit Protection	Disconnect the load,	
			Over-temperature Protection	80℃	
		Output Connector	Interface Type	GB/Australian Standard/Euro Standard/American Standard/British Standard	Optional
Interface Quantity	1-way 4-port				
9.	Environment	Working Temperature	-10℃~+55℃		
		Charge Temperature	0℃~+45℃		
		Humidity(%)	10~85%		
		Cooling	Forced air-cooling		
10.	Dimension	L/W/H(MM)	320*160*160		
11.	Weight	Net Weight	7.3KG		

3. Product Appearance Image

1. Product side view



2. Front and rear view of the product



4. Notice

- 1) Without authorization, it is forbidden to open product and disassemble the battery pack. Any violations may result in insulation parts damage, short circuit and affect in normal usage.
- 2) Product should be stored in dry and ventilated area, with temperature below 35° C and humidity less than 85%. Keep far away from flammable and explosive materials.
- 3) Safety & performance consideration, the working condition should be:
Dry: keep far away from water or rain.
Cool: temperature between 0°C -45°C
Ventilated: Product should be kept at least 5cm away from any objects and well-ventilated while working.
- 4) High-voltage electricity inside, please caution electrical safety! Do not touch output ports with hand or metal objects, to avoid any electric shock, short circuit, product damage or other dangers.
- 5) It is forbidden to modify without authorization. Product is built with protection system. Damaged protection system may cause charging and discharging out of control, therefore result in battery liquid leakage, overheat, or crack.
- 6) Do not overcharge product for long time, or may result in battery liquid leakage, overheat, or crack.
- 7) Please disconnect and power off product in case of abnormal situations happened. Then check the faults according to the troubleshooting indicated in product user manual. If faults cannot be resolved, please send back to authorized dealer/shop to ask for repair or replacement.
- 8) In the case of fault happened, continual using may cause permanent product damage.
- 9) SHX series products are not for children under 8 years old.
- 10) Please charge immediately when battery volume is below 20%.
- 11) Please use soft cloth with mild detergent to clean product, and strong solvent is avoided.
- 12) SHX series products should be powered off when it is left unused for long time, or product damage may cause due to over-discharge.
- 13) Please strictly follow the pre-set parameters, and violations may cause product damage.
- 14) When over-load or short circuit happens, protection system will be activated and automatically cut off the outputs. To resume working, power off PRIME 750, remove all loads, and after 10 seconds restart it. Frequent restarts without removing over-loads may cause permanent damage.
- 15) Initial using, if SHX series products cannot be powered on or cannot supply electricity to loads, please check and if all cables are well-connected, then charge it fully. If the problem still exists, please contact us for supports.

5. Statement

Please read the user manual carefully and follow strictly. We are exempted from the responsibility, if the product is modified without authorization or the product parameters and operations requirements are not obeyed.