

2.5kWh Semi Solid State LiFePO4 Battery

ACrevPOWER Portable Stacked Energy Storage System Solid-state Battery

- SPDTON-5150S



Description:

SPDTON-5150S is innovative power for limitless energy living! Our 51.2V batter, with a capacity of 2.56 kWh, combines compact design and lightweight construction, utilizing the latest in solid-state battery technology. Tailored for home use, it boasts a stackable design for convenient expansion, providing flexibility in energy storage that meets your specific needs. Compact in size, light in weight, and consistently reliable, it stands as an indispensable energy companion for your smart living. Embrace the future, choose solid-state batteries, and unleash boundless energy possibilities!

Much Safety

Using the solid electrolyte in solid-state batteries is non-flammable, hence they are less prone to catch fire. The solid electrolyte is more stable and less prone to overheating.

High Energy Density

Have the potential for higher energy density. Can store more energy in the same volume or weigh and can be designed with simpler and more compact structures

Longer Cycle Life

Have a longer cycle life. Can withstand a greater number of charge-discharge cycles which can improve the overall lifespan of the battery.

Faster Charging

Have faster charging capabilities. The absence of a liquid electrolyte reduces the risk of side reactions and allows for faster ion transport within the battery, leading to quicker charging times.

Reduced Environmental Impact

Solid-state batteries may use less toxic or more abundant materials, reducing the environmental impact of battery production and disposal.

Wide Operating Temperature Range

Solid-state batteries are suitable for use in extreme conditions, such as very high or low temperatures.

Model	SPDTON-5150S
Basic Parameter	
Cell Type	Semi Solid State LiFePO ₄
Nominal Voltage	51.2V
Rated Capacity(@25°C, 100%DOD, 1C CH)	2.56kWh (51.2V/50Ah)
Max.Voltage	58.4 V
Min.Voltage	40V
Max. Charge/Discharge Current (A)	50A
Default SOC	30%
Operation Temp	Charging: 0°C~55°C; Discharging: -20°C~55°C
Storage Temps	-20°C~50°C
Cycle Life (@ 25°C, 1C CH, 1C DCH 100%DOD)	≥80%@4000 cycles
Self-Discharging (@25 °C, 100%SOC, 28 Days)	Retention>94%,Recovery>97%
Communication Port	RS485
Max. Stackable	4 packs
IP Rating of Enclosure	IP65
Humidity	5% - 95%(RH) No Condensation
Battery Charge/Discharge Protection	
Over Charge Alarm	57.6±0.05V
Over Charge Protection	58.4±0.05V
Over Charge Recover	56.8±0.05V
Over Discharge Alarm	41.6±0.05V
Over Discharge Protection	40±0.05V
Over Discharge Recover	43.2±0.05V
Battery Charge/Discharge Temperature Protection	
Charge Over-temperature Alarm	50±3°C
Charge Over-temperature Protection	55±3°C
Charge Over-temperature Restored	45±3°C
Discharge Over-temperature Alarm	60±3°C
Discharge Over-temperature Protection	65±3°C
Battery Charge/Discharge Current Protection	
Charge Over-current Protection Level 1	110±5A
Charge Over-current Protection Level 2	400±5A
Method for Recovering Charging Overcurrent	Recovery After 60 Seconds
The Discharge Over-current Alarm is Generated	100±5A(Delay :3±1s)
Discharge Over-current Protection Level 1	110±5A
Discharge Over-current Protection Level 2	200±5A
Product Parameter	
Dimensions(W*H*D)	280*210*430 mm
Weight	24±0.5 kg
Short Circuit Protection	Ban on short circuit
Self Consumption	After standing for 12h, it enters this mode in no abnormal state
Warranty	10 Years (Except for vulnerable structural pars (such as terminal blocks, panels, external wiring materials, etc.)