

All In One ESS Energy Storage System

Tiny Home Solar Solutions
SESS Small Energy Storage System
5.2kWh LiFePO4 Battery + 3kW Smart Inverter



SESS Series Brief Introduce

SESS 5.2+3 integrates a 5.2kWh LiFePO4 battery and a 3kW inverter in one moveable system with wheels. Designed for home energy storage and backup power, the system supports PV charging and AC charging. The battery operates at a nominal 25.6V with a rated capacity of 206Ah. Its compact cabinet allows convenient positioning for residential applications. The 3kW AC output supplies compatible household appliances at 230Vac. Refer to the technical specifications for the operating limits and select the configuration to suit the application. OEM and customization options are available on request.

Safety

Long Life

Simple



Application Block Diagram



All In One ESS

Energy Storage System

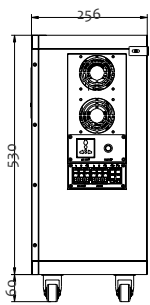
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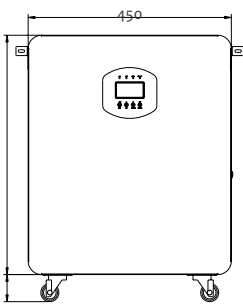
Technical Specifications

Model		SESS 5.2+3
Parametric Description		5.2kWh+3kW
Battery	Battery Type	LiFePO4 Battery
	Battery Energy	5.2kWh
	Nominal Voltage	25.6V
	Rated Capacity	206Ah
PV	MPPT Voltage Range	40~450Vdc
AC Output	Rated Power	3kW
	AC Voltage	230Vac
General Parameters	IP Grade	IP20 / IP54
	Communication	RS485/WiFi
	Size (mm)	450×256×590 mm
	Weight (kg)	48.5kg (about)

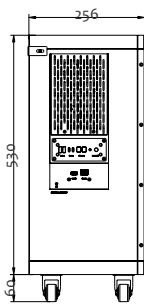
Size & Weight



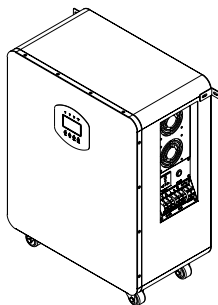
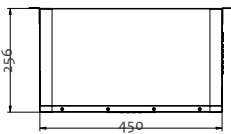
Length: 450 mm



Width: 256 mm



Height: 530 + 60 mm



Weight: 48.5kg (about)

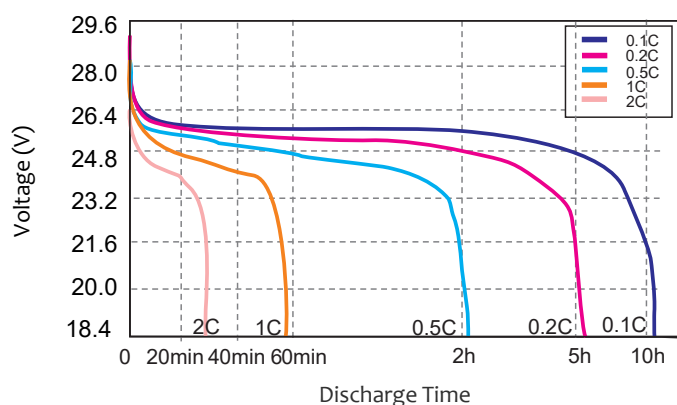
Note: All above information shall be changed without prior notice, we reserve the right to explain and update the latest information. Welcome inquiry us !

Battery BMS Specifications

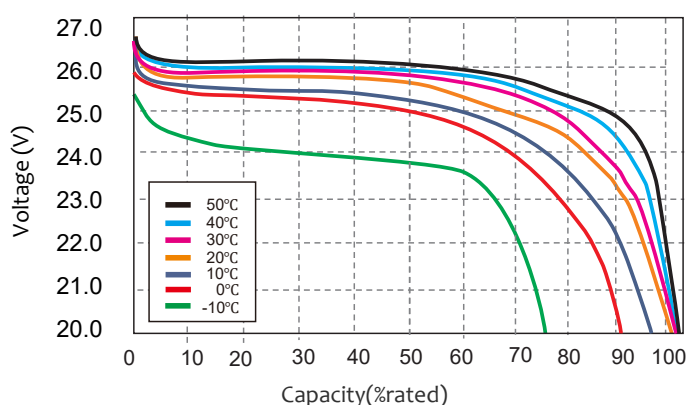
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Battery Performance Characteristics (8S reference curves, 25.6V nominal)

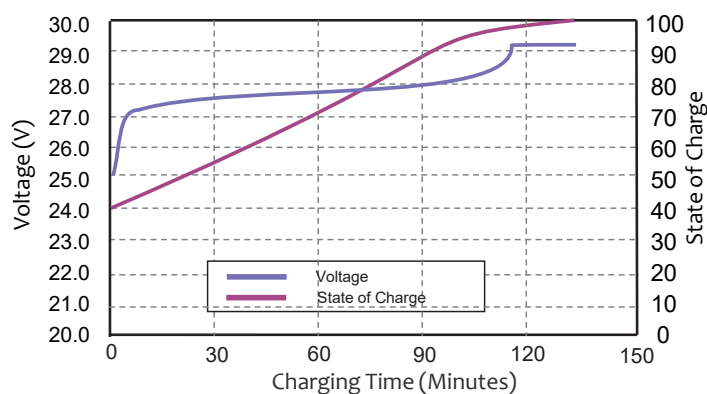
Different Rate Discharge Curve (25°C)



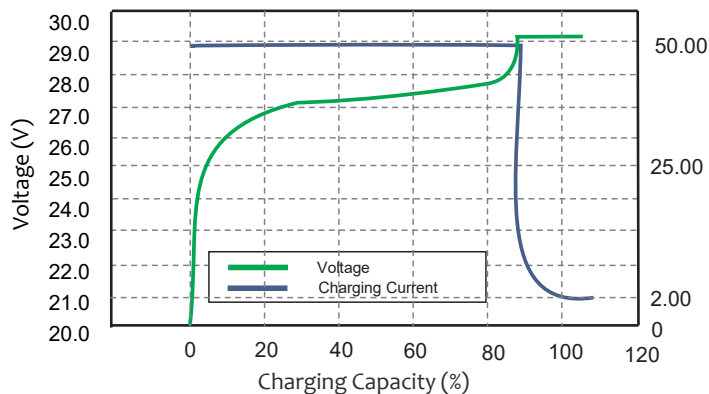
Different Temperature Discharge Curve At 0.5C



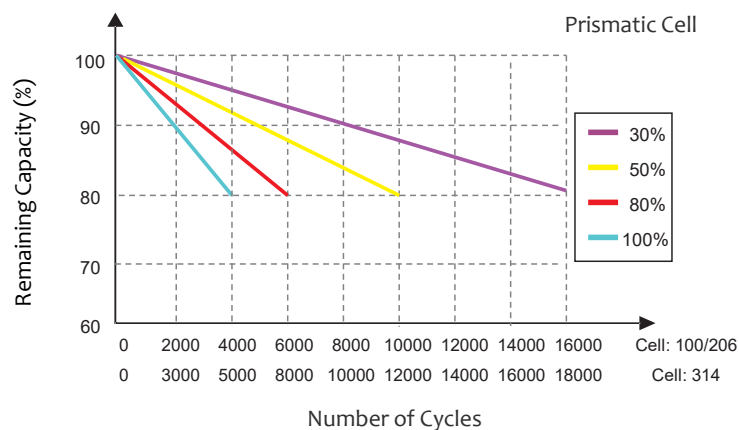
State Of Charge Curve At 0.5C (25°C)



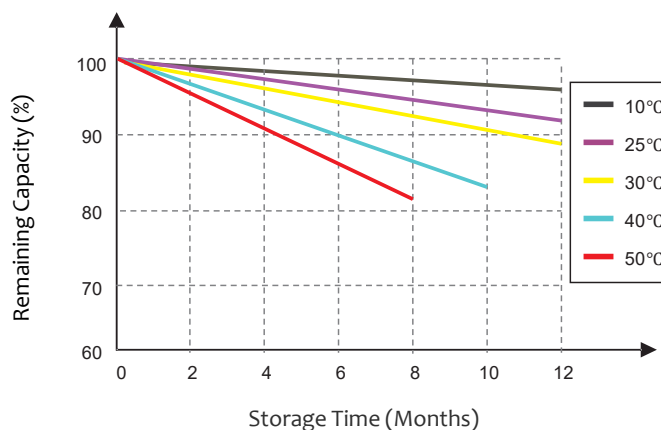
Charging Characteristics At 0.5C (25°C)



Cycle Life Curve At 0.2C According DoD



Self Discharge Characteristics Curve



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SAFETY WARNING : Use only within the allowed parameters. Do not short circuit or over-load the battery. Charge only using an approved charger designed specifically to charge this battery. Do not heat above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices or circuits. Do not use the battery if you suspect it may be faulty or damaged.

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