

Sohigh LiBAT



Product Features

- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range: -20°C~60°C.
- Superior Safety: Lithium iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- Increased Flexibility: Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.
- Good deep discharge cycle capability
- Excellent Recovery from Deep

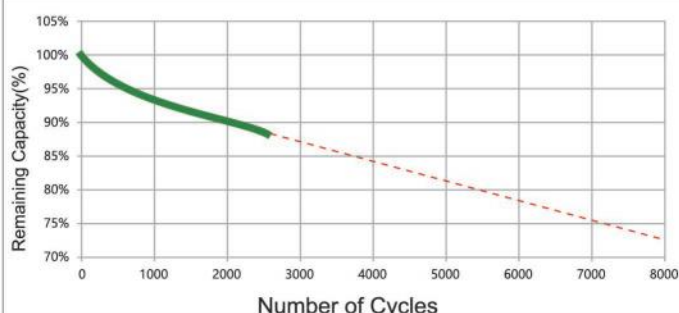
Sohigh LiBAT-100AH-25.6V

Solar Lithium Battery

Sohigh Solar
High Technology. High Quality



Cycle Life Curve



Technical Features

- **Ironclad Protection:** A steel-hardened, gray cast iron case provides significant improvements in protection against structural affects versus a typical plastic case
- **Streamlined Visual Assessments:** Sophisticated monitoring software provides on-demand information for battery health, cell health, BMS protections, regulatory temperature status
- **Longer Service Life:** Our LiFePO4 battery provides 2500 - 7000 cycles & a 10 years .
- **Efficient Power:** Our LiFePO4 battery's flat discharge curve holds above 25.6V for up to 95%
- **Impeccably Lightweight:** Our LiFePO4 battery is only a 1/3 of the weight of Lead Acid
- **Complete Protection:** The lithium battery's unique built-in Battery Management System (BMS) protects it from overcharge, deep discharge, overloading, overheating and short circuit.

Application

- Electric vehicles, electric mobility
- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

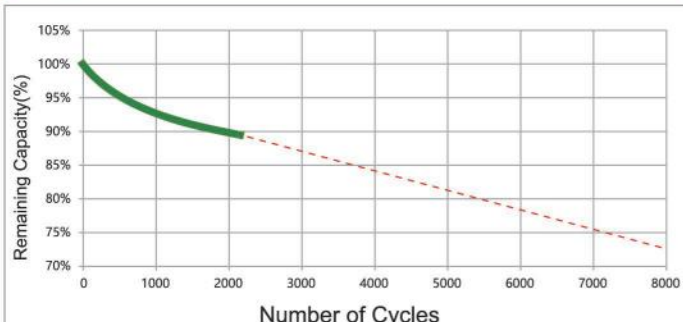
Technical Parameter

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	100Ah (C _s , 25°C)
	Energy	2560Wh
	Internal Resistance	≤200mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV)
	Charger Current	10A
	Max.Charge Current	20A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	50A
	Max.Charge Current	100A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	10213245-3.2V50AH-8S2P
	Plastic Case	2U standard case
	Dimensions (in./mm.)	482*410*89 mm
	Terminal	100A Connector
	Protocol (optional)	RS485/CAN
	BMS	8S50A

NOTICE:Manual measurement, product specifications and dimensions may have errors, subject to actual receipt.



Cycle Life Curve



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Application

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- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	150Ah (C _s , 25°C)
	Energy	3840Wh
	Internal Resistance	≤200mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV)
	Charger Current	50A
	Max.Charge Current	100A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	200A(<3s)
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	

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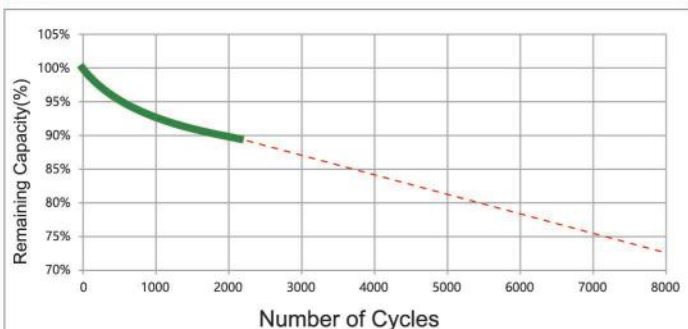
Sohigh LiBAT-200AH-25.6V

Solar Lithium Battery

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High Technology, High Quality



Cycle Life Curve



Technical Features

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Application

- Electric vehicles, electric mobility
- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	200Ah (C _s , 25°C)
	Energy	5120Wh
	Internal Resistance	≤200mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV)
	Charger Current	40A
	Max.Charge Current	150A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	150A
	Max.Charge Current	450A(<3s)
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	

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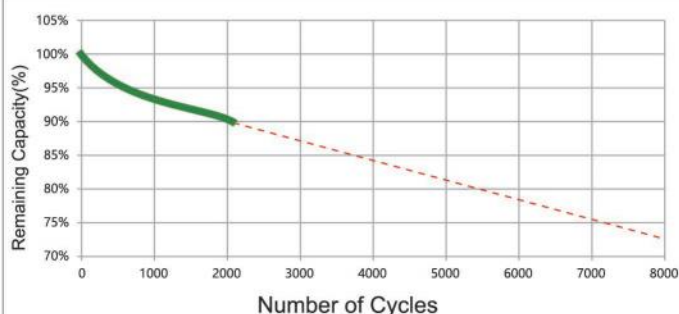
Sohigh LiBAT-100AH-51.2V

Solar Lithium Battery

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Cycle Life Curve



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- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

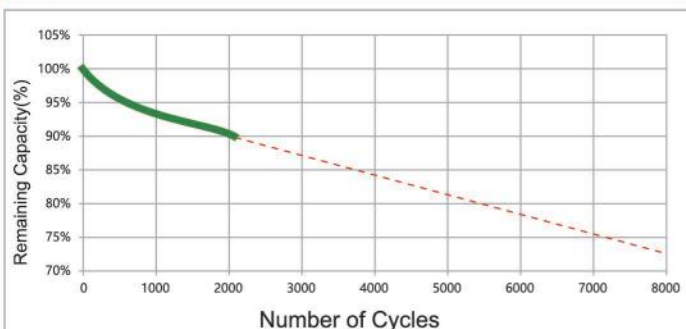
Technical Parameter

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	100Ah (C _s , 25°C)
	Energy	5120Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13161227-3.2V50AH-16S2P
	Plastic Case	5U standard case
	Dimensions (in./mm.)	482*430*222 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	15S100A

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Cycle Life Curve



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Application

- Electric vehicles, electric mobility
- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	150Ah (C _s , 25°C)
	Energy	7680Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13161227-3.2V50AH-16S3P
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*500*270 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A

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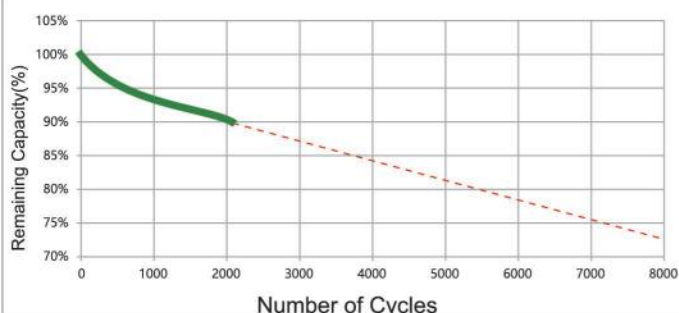
Sohigh LiBAT-200AH-51.2V

Solar Lithium Battery

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Cycle Life Curve



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Application

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- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	200Ah (C _s , 25°C)
	Energy	10240Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13161227-3.2V50AH-16S4P
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*500*270 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A

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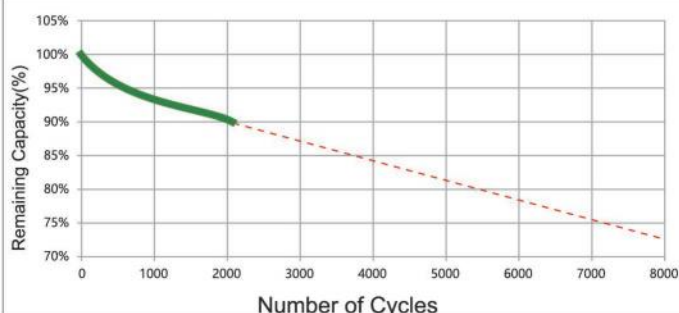
Sohigh LiBAT-250AH-51.2V

Solar Lithium Battery

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Cycle Life Curve



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Application

- Electric vehicles, electric mobility
- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	250Ah (C _s , 25°C)
	Energy	7680Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13161227-3.2V50AH-16S5P
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*570*270 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A

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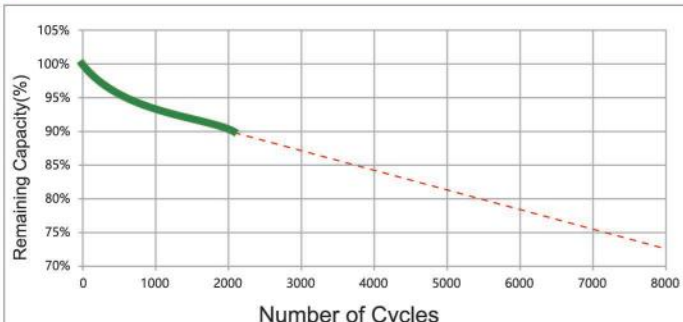
Sohigh LiBAT-300AH-51.2V

Solar Lithium Battery

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Cycle Life Curve



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Application

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- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Technical Parameter

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	300Ah (C _s , 25°C)
	Energy	15360Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
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	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13161227-3.2V50AH-16S6P
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*570*270 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A

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Product Features

Deep Cycle Life(4000)

Using high quality LifePO4 cells, Cycle life can get to more than 6000 times, Usage life can be more than 7 years



High quality-in LifePO4 cells

LifePo4 batteries have higher Energy density and cycle life. Superior electrical performance. safety, environmental protection and No pull comparison For traditional lead-acid batteries

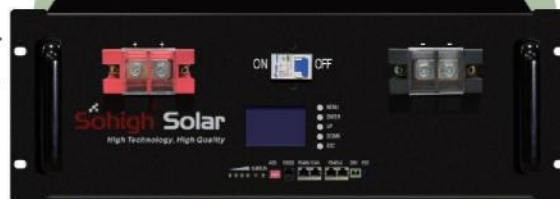
Support various communication protocols

Support RS485 CAN and other communication protocols



Intelligent BMS

Offer: Over-charge protection, over-discharge protection, over-current protection, high temperature protection and more to 15 items' protections



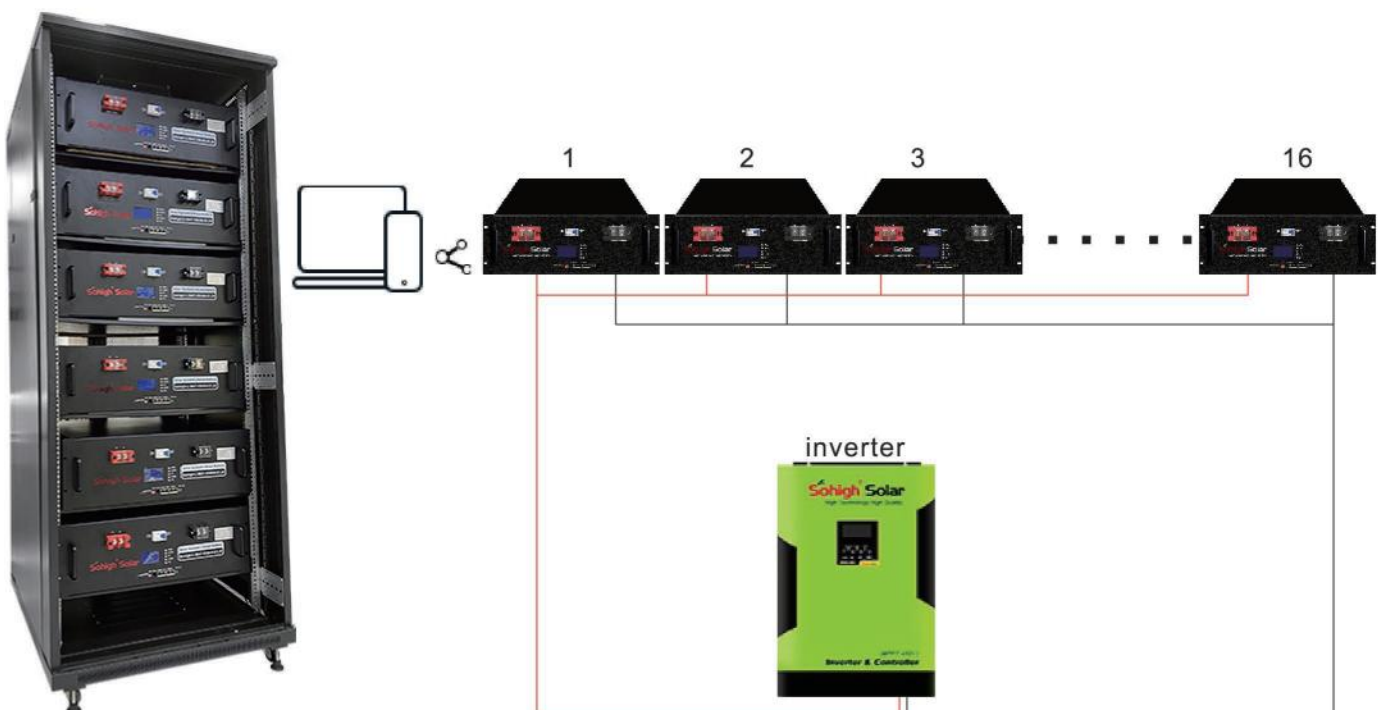
Deep Cycle Life(4000)

During the ultimate performance tests, battery won't be on fire and boom

Customization

Welcome for customers' OEM & ODM inquiry

Max support 16 units parallel connection.



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