Sohigh Lithium Battery





Product Features

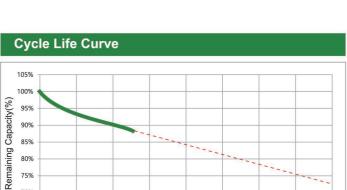
- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement 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







Number of Cycles

1000

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

7000

	Technical Para	ameter
	Nominal Voltage	25.6V
	Nominal Capacity	100Ah (C₅ , 25°C)
	Energy	2560Wh
	Internal Resistance	≤200mΩ
Electrical Characteristics	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2, charge current 0.02C(CC/CV)
Standard Charge	Charger Current	10A
	Max.Charge Current	20A
	Charge Cut-off Voltage	29.6V±0.2V
	Continuous Current	50A
Standard Discharge	Max.Charge Current	100A(<3s)
	Discharge Cut-off Voltage	40V
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
Environmental	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	
	Cell & Method	10213245-3.2V50AH-8S2P
	Plastic Case	2U standard case
Mechanical	Dimensions (in./mm.)	482*410*89 mm
	Terminal	100A Connector
	Protocol (optional)	RS485/CAN
	BMS	8S50A



Sohigh LiBAT-150AH-25.6V







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%
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- 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

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Ż	70%		1000	2	000	2000	4000	 000	6000	7/	000	800
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	Technical Param	eter
	Nominal Voltage	25.6V
	Nominal Capacity	150Ah (C₅ , 25°C)
	Energy	3840Wh
	Internal Resistance	≤200mΩ
Electrical Characteristics	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2, charge current 0.02C(CC/CV)
Standard Charge	Charger Current	50A
	Max.Charge Current	100A
	Charge Cut-off Voltage	29.6V±0.2V
	Continuous Current	100A
Standard Discharge	Max.Charge Current	200A(<3s)
	Discharge Cut-off Voltage	20V
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
Environmental	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60 \pm 25% Relative Humidity
Liiviioiiiieittai	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	



Sohigh LiBAT-200AH-25.6V







Technical Features

- Ironclad Protection: A steel-hardened, gray cast iron case provides significant improvements in protection against structural affects versus a typical plastic case
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Application

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

(Cycle	Life	e Cı	ırve							
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	100%										
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<u> </u>	75%										
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	Technical Paran	neter
	Nominal Voltage	25.6V
	Nominal Capacity	200Ah (C₅ , 25°C)
	Energy	5120Wh
	Internal Resistance	≤200mΩ
Electrical Characteristics	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2, charge current 0.02C(CC/CV)
Standard Charge	Charger Current	40A
	Max.Charge Current	150A
	Charge Cut-off Voltage	29.6V±0.2V
	Continuous Current	150A
Standard Discharge	Max.Charge Current	450A(<3s)
	Discharge Cut-off Voltage	20V
	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
Environmental	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	



Sohigh LiBAT-100AH-51.2V

Cycle Life Curve









- Ironclad Protection: A steel-hardened, gray cast iron case provides significant improvements in protection against structural affects versus a typical plastic case
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Application

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

Technical Parameter

	105%										
	100%										
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-	70%	0	1000	200	20 2	3000	4000	5000	6000	7000	800

	Technical Parameter					
	Nominal Voltage	51.2V				
	Nominal Capacity	100Ah (C₅ , 25°C)				
	Energy	5120Wh				
Flooring Observation	Internal Resistance	≤500mΩ				
Electrical Characteristics	Cycle Life	>3500 cycles @0.2C 100%DOD				
	Months Self Discharge	<3%				
	Efficiency of Charge	100% @0.2C				
	Efficiency of Discharge	96~99% @1C				
	Charge Voltage	58.4±0.2V				
	Charge Mode	0.2C to 58.4V, then 58.4, charge current 0.02C(CC/CV)				
Standard Charge	Charger Current	20A				
	Max.Charge Current	50A				
	Charge Cut-off Voltage	59.2V±0.2V				
	Continuous Current	100A				
Standard Discharge	Max.Charge Current	150A(<3s)				
	Discharge Cut-off Voltage	40V				
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity				
Environmental	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					
	Cell & Method	13161227-3.2V50AH-16S2P				
	Plastic Case	5U standard case				
Mechanical	Dimensions (in./mm.)	482*430*222 mm				
moonamour	Terminal	100A through terminal				
	Protocol (optional)	RS485/CAN				
	BMS	15S100A				



Sohigh LiBAT-150AH-51.2V

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
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Application

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

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	90%					
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5	75%					
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	Technical Para	imeter
	Nominal Voltage	51.2V
	Nominal Capacity	150Ah (C₅ , 25°C)
	Energy	7680Wh
Electrical Characteristics	Internal Resistance	≤500mΩ
Electrical Characteristics	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4, charge current 0.02C(CC/CV)
Standard Charge	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
	Continuous Current	100A
Standard Discharge	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
Environmental	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	
	Cell & Method	13161227-3.2V50AH-16S3P
	Plastic Case	6U standard case
Mechanical	Dimensions (in./mm.)	482*500*270 mm
Moonamour	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A
	I .	

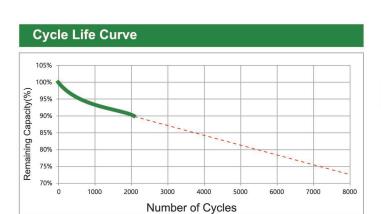


Sohigh LiBAT-200AH-51.2V

Solar Lithium Battery







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.
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- 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 Para	ameter		
	Nominal Voltage	51.2V		
	Nominal Capacity	200Ah (C₅, 25°C)		
	Energy	10240Wh		
Floodise I Ohana daviation	Internal Resistance	≤500mΩ		
Electrical Characteristics	Cycle Life	>3500 cycles @0.2C 100%DOD		
	Months Self Discharge	<3%		
	Efficiency of Charge	100% @0.2C		
	Efficiency of Discharge	96~99% @1C		
	Charge Voltage	58.4±0.2V		
	Charge Mode	0.2C to $58.4V$, then 58.4 , charge current $0.02C(CC/CV)$		
Standard Charge	Charger Current	20A		
	Max.Charge Current	50A		
	Charge Cut-off Voltage	59.2V±0.2V		
	Continuous Current	100A		
Standard Discharge	Max.Charge Current	150A(<3s)		
	Discharge Cut-off Voltage	40V		
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity		
Environmental	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			
	Cell & Method	13161227-3.2V50AH-16S4P		
	Plastic Case	6U standard case		
Mechanical	Dimensions (in./mm.)	482*500*270 mm		
moonamoar	Terminal	100A through terminal		
	Protocol (optional)	RS485/CAN		
	BMS	16S100A		

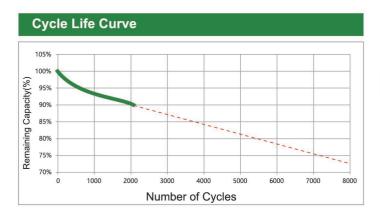


Sohigh LiBAT-250AH-51.2V

Solar Lithium Battery







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 Para	ameter
	Nominal Voltage	51.2V
	Nominal Capacity	250Ah (C ₅ , 25°C)
	Energy	7680Wh
	Internal Resistance	≤500mΩ
Electrical Characteristics	Cycle Life	>3500 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4, charge current 0.02C(CC/CV)
Standard Charge	Charger Current	20A
	Max.Charge Current	50A
	Charge Cut-off Voltage	59.2V±0.2V
	Continuous Current	100A
Standard Discharge	Max.Charge Current	150A(<3s)
	Discharge Cut-off Voltage	40V
	Charge Temperature	0°Cto 45°C (32F to 113F) @60±25% Relative Humidity
Environmental	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
Environmental	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
	Cell & Method	13161227-3.2V50AH-16S5P
	Plastic Case	6U standard case
Mechanical	Dimensions (in./mm.)	482*570*270 mm
Wednamear	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A



Sohigh LiBAT-300AH-51.2V









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

	105%										
	100%										
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"	80%		_								
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	9	0	1000		2000	3000	4000 er of Cy	5000	600	0 70	00 80

reciffical Farameter		
Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	300Ah (C₅ , 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
	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-16S6P
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*570*270 mm
	Terminal	100A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A



Sohigh Lithium Battery



Product Features



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

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High quality-in LifePO4

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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Solar

