Sohigh LiFePO4 Battery

Sohigh Solar
High Technology, High Quality

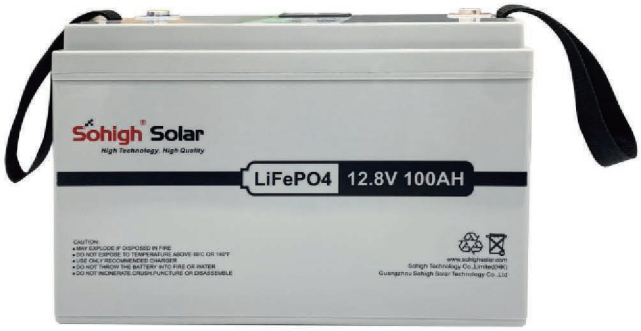
Product Features

- 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-12.8V

Solar LiFePO4 Battery

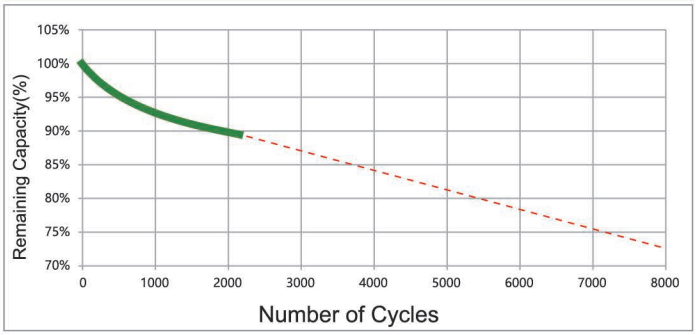
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



Application

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

Technical Parameter

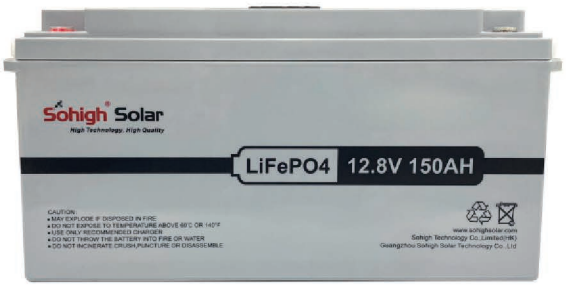
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah (C_5 , 25℃)
	Energy	1280Wh
	Internal Resistance	⩽150mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Charger Current	50A
	Max.Charge Current	100A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	300A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0℃ to 45℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0℃ to 40℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	13.2V50AH-4S2P
	Plastic Case	ABS
	Dimensions (in./mm.)	330*173*220 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S100A

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

Sohigh LiBAT-150AH-12.8V

Solar LiFePO4 Battery

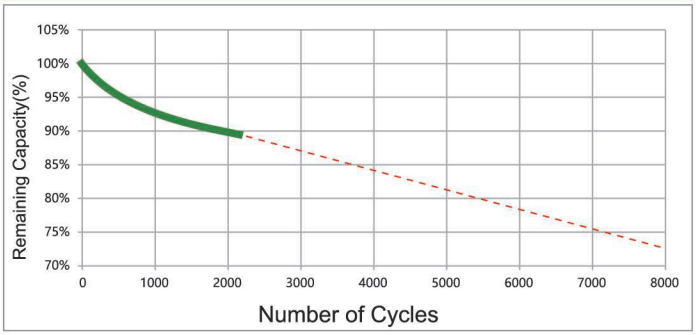
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



Application

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

Technical Parameter

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	150Ah (C_5 , 25℃)
	Energy	1920Wh
	Internal Resistance	⩽150mΩ
	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	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Charger Current	50A
	Max.Charge Current	100A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	200A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 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	3.2V50AH-4S3P
	Plastic Case	ABS
	Dimensions (in./mm.)	330*173*220 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S100A

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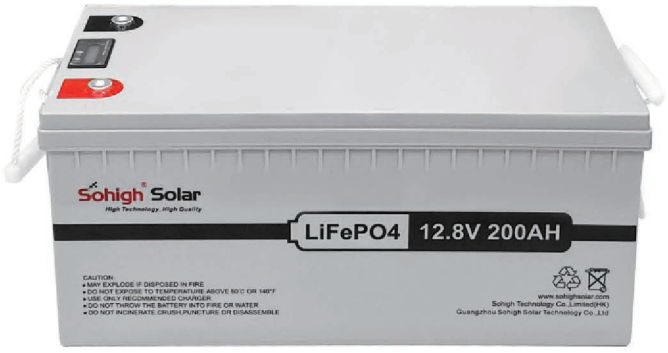
Sohigh LiBAT-200AH-12.8V

Solar LiFePO4 Battery

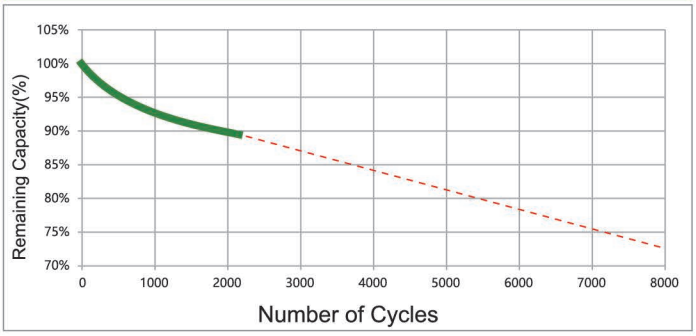
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



Application

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

Technical Parameter

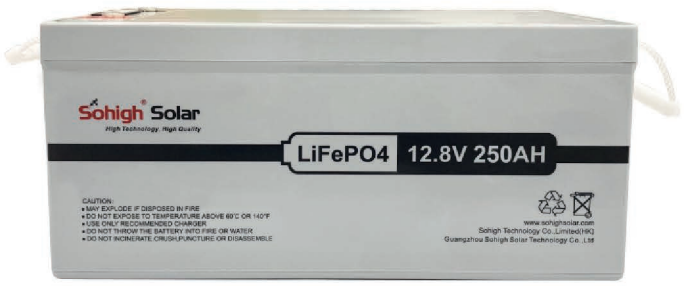
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	200Ah (C_5 , 25℃)
	Energy	2560Wh
	Internal Resistance	⩽150mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Charger Current	80A
	Max.Charge Current	150A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Continuous Current	150A
	Max.Charge Current	450A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 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	3.2V50AH-4S4P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*240*218 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S150A

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

Sohigh LiBAT-250AH-12.8V

Solar LiFePO4 Battery

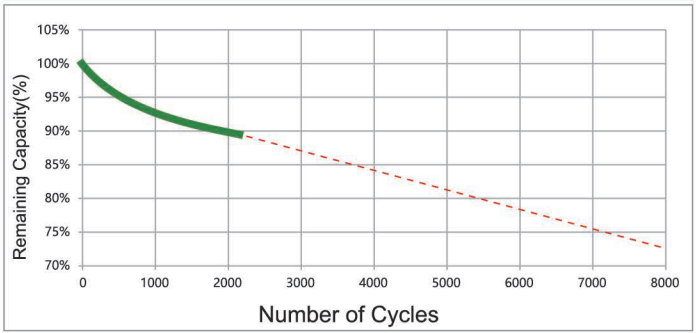
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



Application

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

Technical Parameter

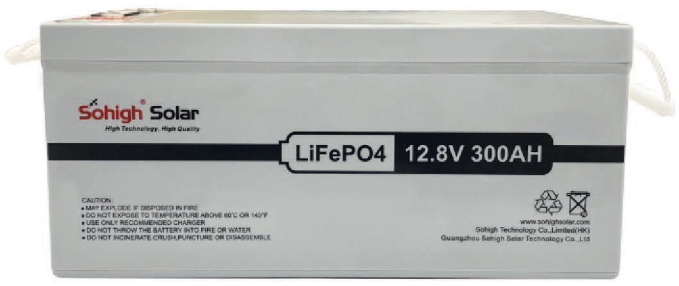
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	250Ah (C_5 , 25℃)
	Energy	3200Wh
	Internal Resistance	⩽200mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Charger Current	50A
	Max.Charge Current	150A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Continuous Current	150A
	Max.Charge Current	450A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 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	3.2V50AH-4S5P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*268*218 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S150A

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

Sohigh LiBAT-300AH-12.8V

Solar LiFePO4 Battery

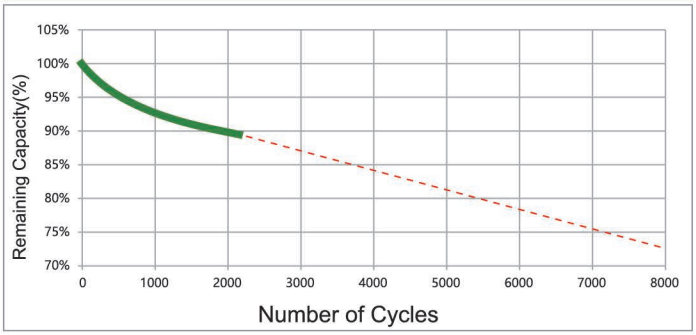
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



Application

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

Technical Parameter

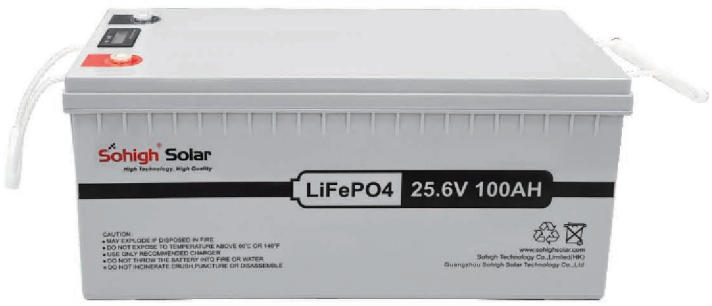
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	300Ah (C_5 , 25℃)
	Energy	3840Wh
	Internal Resistance	⩽200mΩ
	Cycle Life	>3000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Charger Current	50A
	Max.Charge Current	150A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Continuous Current	150A
	Max.Charge Current	450A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 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	3.2V50AH-4S6P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*268*218 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S150A

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

Sohigh LiBAT-100AH-25.6V

Solar LiFePO4 Battery

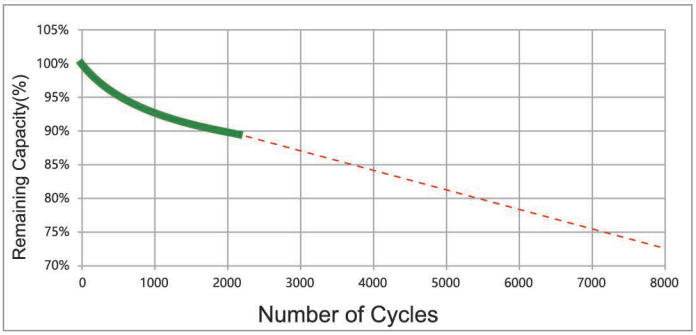
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



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_5 , 25℃)
	Energy	2560Wh
	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	20A
	Max.Charge Current	100A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	100A
	Max.Charge Current	300A(<3s)
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0°C to 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	3.2V50AH-8S2P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*238*225 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	8S100A

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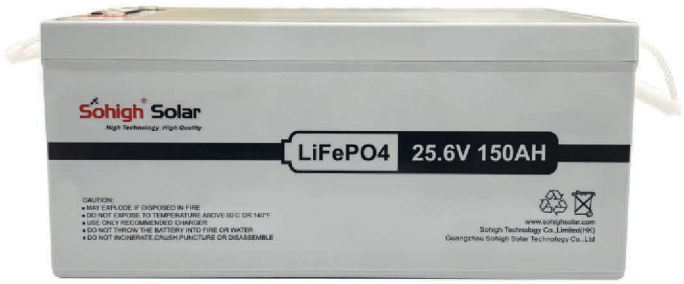
Sohigh LiBAT-150AH-25.6V

Solar LiFePO4 Battery

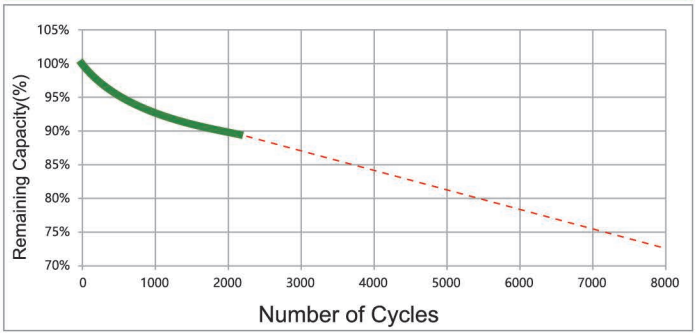
Sohigh Solar
High Technology, High Quality



Technical 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.
- **Higher Power** : Delivers twice power of lead acid battery , even high discharge rate , while maintaining high energy capacity.
- **Wider Temperature Range** : -20℃-60℃.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Cycle Life Curve



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	150Ah (C_5 , 25℃)
	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°C to 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	3.2V50AH-8S3P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*268*218 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	8S100A

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Sohigh LiBAT-200AH-25.6V

Solar LiFePO4 Battery

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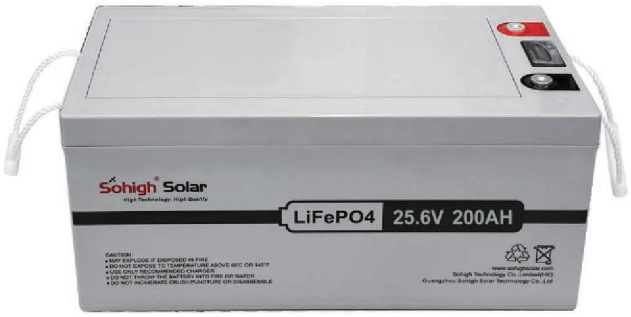
High Technology, High Quality



Technical Features

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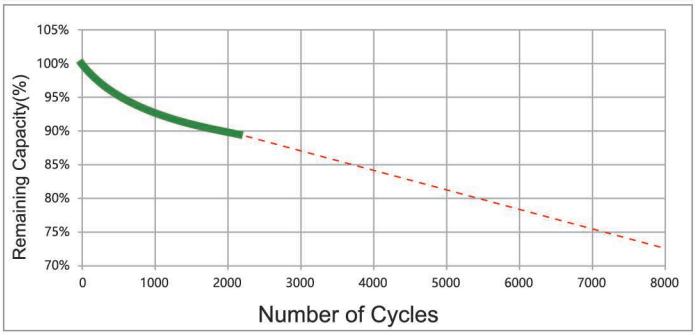
Cycle Life Curve



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_5 , 25℃)
	Energy	5120Wh
	Internal Resistance	⩽200mΩ
	Cycle Life	>2000 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°C to 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	3.2V50AH-8S4P
	Plastic Case	ABS
	Dimensions (in./mm.)	522*268*218 mm
	Terminal	M8
	Protocol (optional)	NO
	BMS	8S100A

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

Sohigh LiFePO4 Battery

Sohigh LiBAT

Sohigh Solar
High Technology, High Quality

High Energy Density
LiFePO4 batteries store much more energy compared with lead-acid batteries. LiFePO4 batteries have a deep charge rate providing maximum

Eco Friendly
LiFePO4 batteries use more abundant and non-toxic materials that can be produced with less energy

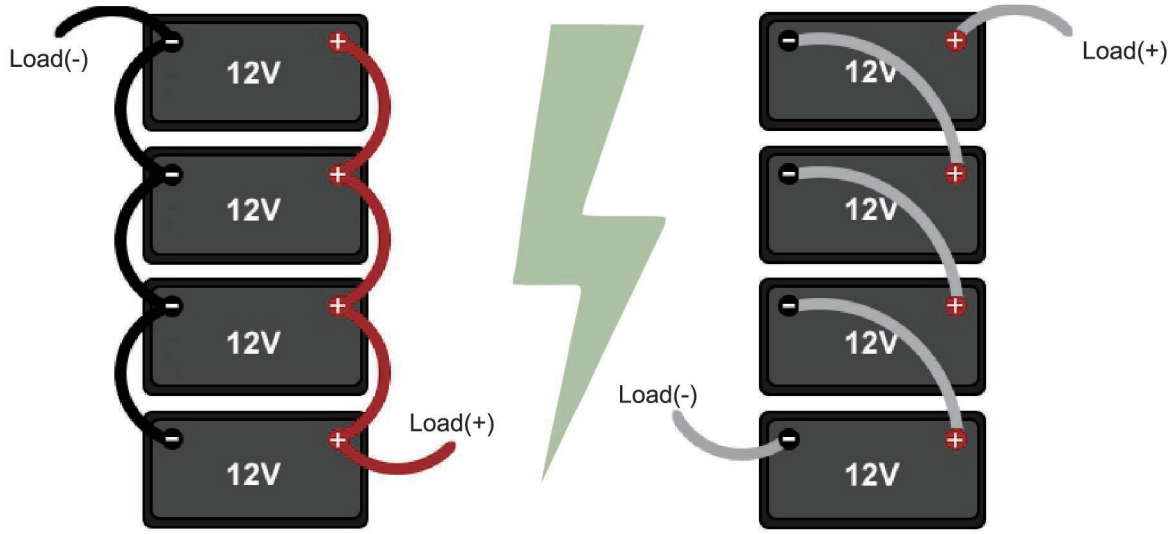
Powerful
LiFePO4 are nearly 4 times as powerful as SLA and can provide more time of use.

Long Service Life
LiFePO4 batteries have a long service life . These batteries will provide you with 2,500 complete charge

>4000 Cycles

Light Weight
Conveniently light as well as powerful making LiFePO4 Batteries Very versatile.

Battery Connection



LiFePO4 VS Lead-Acid Battery

Weight

LiFePO4 Battery	1/3
SLA Battery	3x the Weight

Eco Friendly

LiFePO4 Battery	No heavy metals, high safety
SLA Battery	Contains heavy metals, air pollution

Life Time

LiFePO4 Battery	5 Yrs
SLA Battery	3 Yrs

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