

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

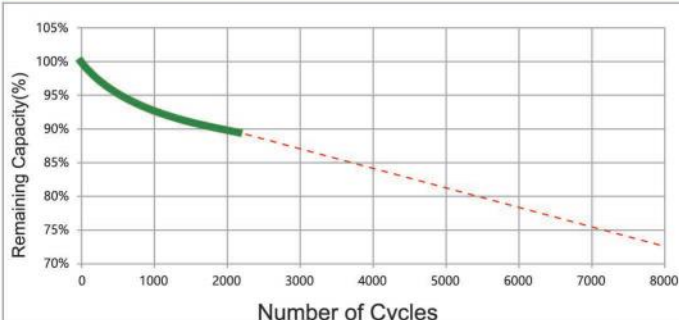
Sohigh LiBAT-100AH-12.8V

Solar LiFePO4 Battery

Sohigh Solar
High Technology, High Quality



Cycle Life Curve



Technical Features

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- **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.

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°C) |
| | 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°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 | 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.

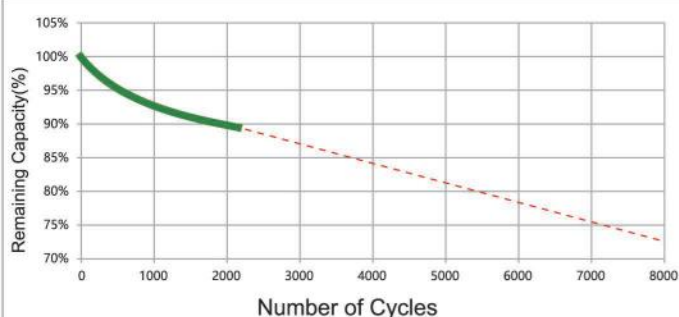
Sohigh LiBAT-150AH-12.8V

Solar LiFePO4 Battery

Sohigh Solar
High Technology. High Quality



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

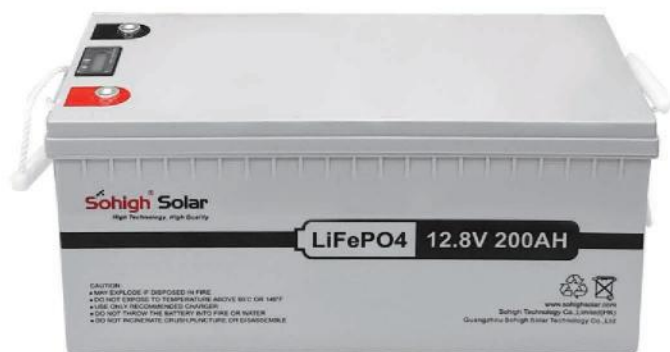
| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 150Ah (C _s , 25°C) |
| | Energy | 1920Wh |
| | Internal Resistance | ≤150mΩ |
| | Cycle Life | >3000 cycles @1C 100%DOD |
| | Months Self Discharge | <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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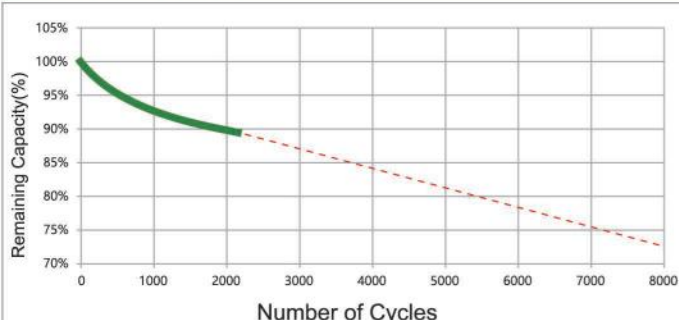
Sohigh LiBAT-200AH-12.8V

Solar LiFePO4 Battery

Sohigh Solar
High Technology. High Quality



Cycle Life Curve



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.
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- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

Application

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

Technical Parameter

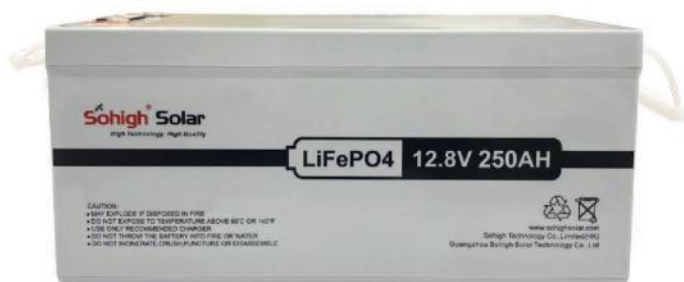
| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 200Ah (C _s , 25°C) |
| | Energy | 2560Wh |
| | Internal Resistance | ≤150mΩ |
| | Cycle Life | >3000 cycles @1C 100%DOD |
| | Months Self Discharge | <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 |

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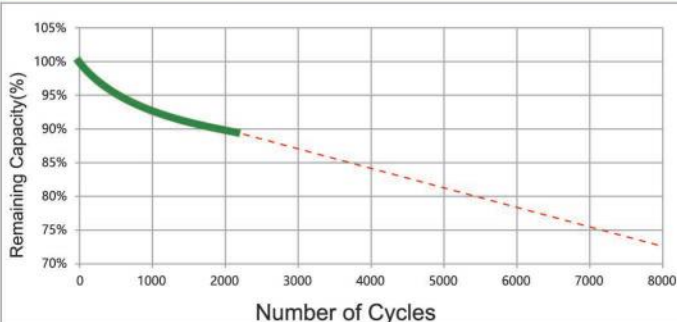
Sohigh LiBAT-250AH-12.8V

Solar LiFePO4 Battery

Sohigh Solar
High Technology, High Quality



Cycle Life Curve



Technical Features

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- **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.

Application

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

Technical Parameter

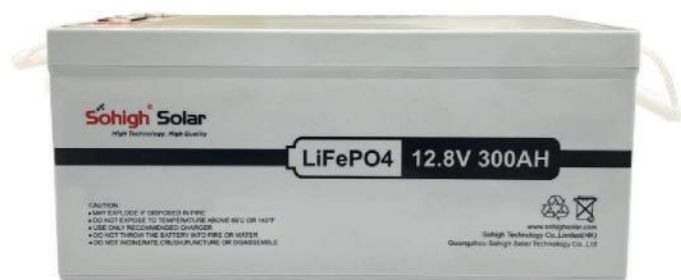
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|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 250Ah (C ₅ , 25°C) |
| | Energy | 3200Wh |
| | Internal Resistance | ≤200mΩ |
| | Cycle Life | >3000 cycles @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 |

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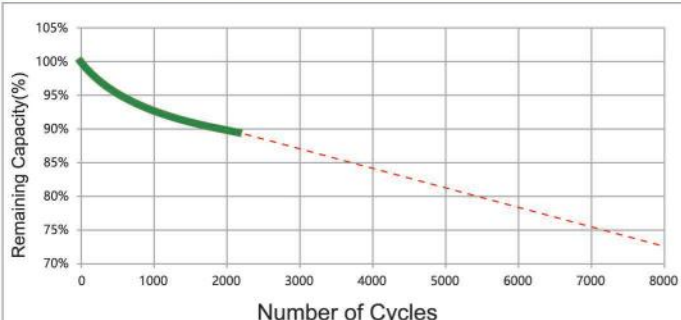
Sohigh LiBAT-300AH-12.8V

Solar LiFePO4 Battery

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Cycle Life Curve



Technical Features

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- **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.

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°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 | 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 |

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Sohigh LiBAT-100AH-25.6V

Solar LiFePO4 Battery

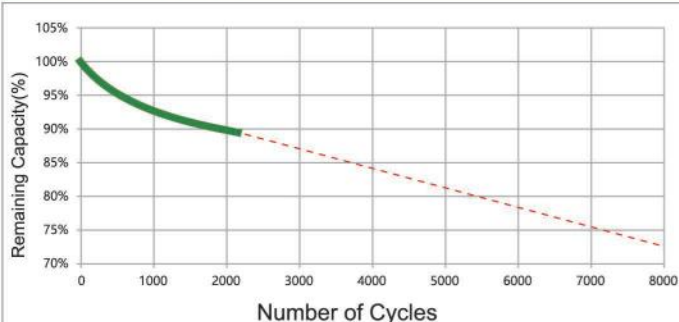
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Technical Features

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- **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.

Cycle Life Curve



Application

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

Technical Parameter

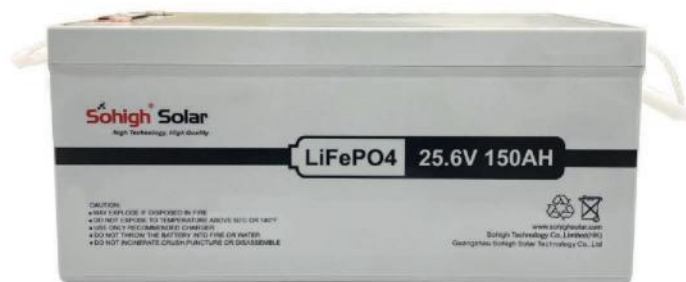
| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 25.6V |
| | Nominal Capacity | 100Ah (C _s , 25°C) |
| | Energy | 2560Wh |
| | Internal Resistance | ≤200mΩ |
| | Cycle Life | >3000 cycles @1C 100%DOD |
| | Months Self Discharge | <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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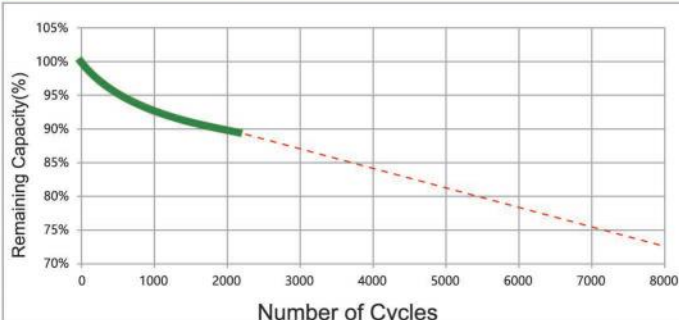
Sohigh LiBAT-150AH-25.6V

Solar LiFePO4 Battery

Sohigh Solar
High Technology. High Quality



Cycle Life Curve



Technical Features

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- **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.

Application

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

Technical Parameter

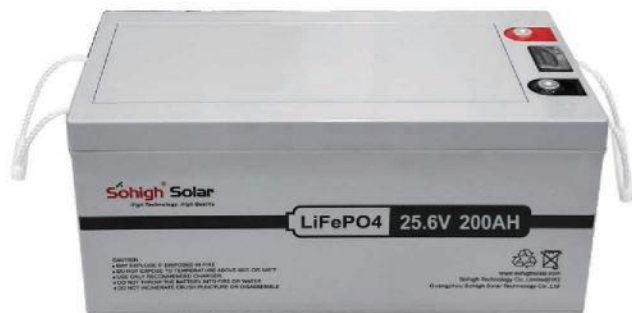
| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 25.6V |
| | Nominal Capacity | 150Ah (C ₅ , 25°C) |
| | Energy | 3840Wh |
| | Internal Resistance | ≤200mΩ |
| | Cycle Life | >3000 cycles @1C 100%DOD |
| | Months Self Discharge | <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°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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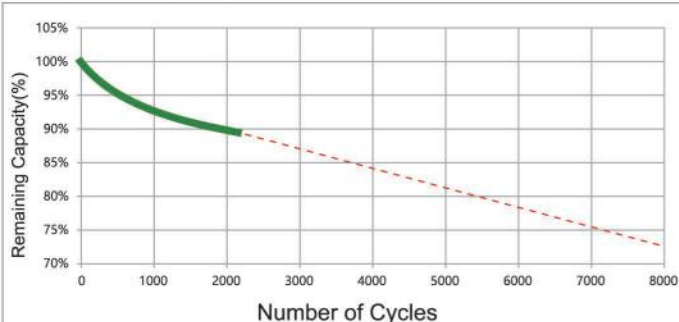
Sohigh LiBAT-200AH-25.6V

Solar LiFePO4 Battery

Sohigh Solar
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 | >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 |

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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.



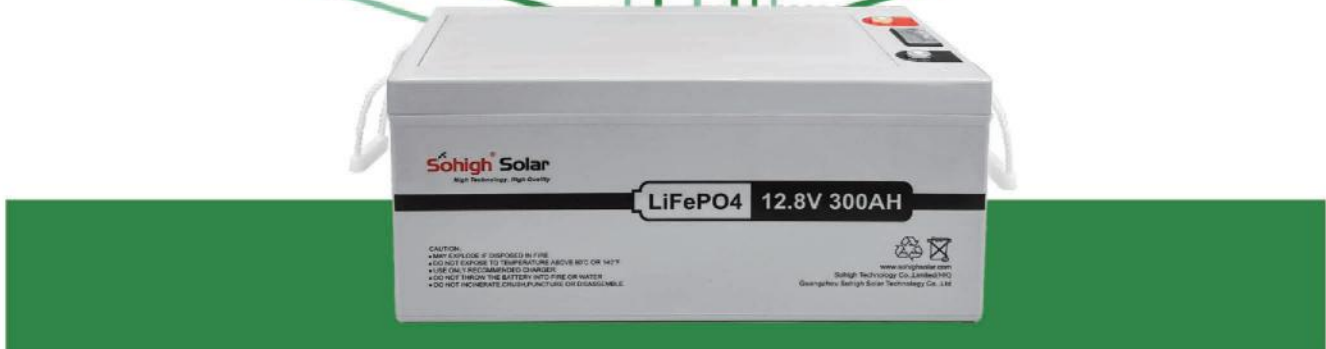
Long Service Life

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

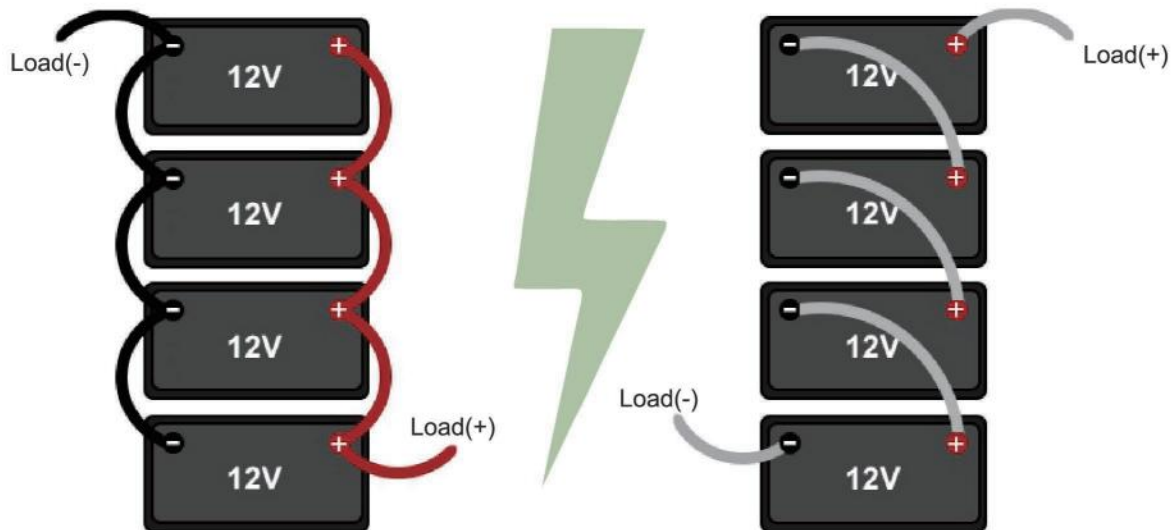


Light Weight

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

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