

12V Solar Gel Battery

Sohigh Solar
High Technology, High Quality



Solar Front Terminal Battery

Sohigh BAT

Power 12V 105AH / 150AH / 210AH

**SOHIGH
SOLAR**



Low Self Discharge



Excellent Discharge
Performance



Maintenance-Free Absorbent
Glass Mat Technology



Long Designed service
Life ,Deep Cycles



Environment Friendliness



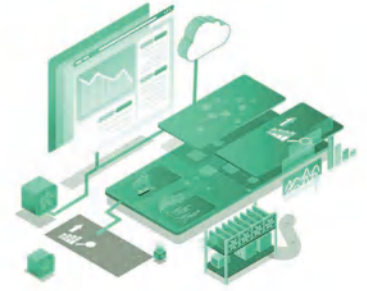
Wide suitability of ambient
temperature range

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

Sohigh Battery Assembly and Construction

Sohigh Solar has always been at the very top of the short-duration, high energy, lead acid battery technology. Their thin-plate, pure lead Absorbed Glass Mat (AGM) batteries and battery packs are used in Telecom Power Systems (cell tower backup), uninterruptible power supplies, and mission-critical Engine Start applications.

[Book a factory tour](#)



Solar Battery Workshop



01

Assemble Pb Plate

Plate Sets Positive & Negative Plates

2-a: Negative Plate (Grid) Paste

Paste electrically active mass onto Grids

2-b: Positive Plate (Grid) Paste

Negative Plate Electrically active mass into Grids
Insert pasted positive plates into microporous pocket separator

02



Welding Pb Plate

Connection of Plates with Same Polarity



03

Put Plates Into Containers

Injection Molded Plastic Case
Holes punched for intercell connectors
Plate Sets(Positive & Negative)

04

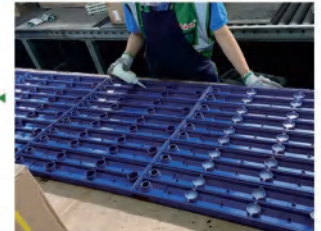


Strengthen Structure



07

Add Glue To Battery Lid



08

Seal The Lid



09

Welding Plate Groups

Cell to cell & Connectors



05

Qualification Test

06

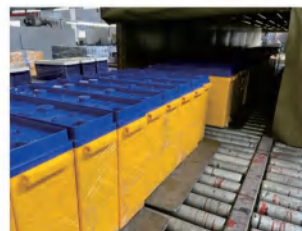


Acid Filling



10

Drying Rapidly



11

Label & Finish

Formation Initial Battery Charging
High Rate Discharge Test
Cleaning

(Addition of Barcode) Impedance Baseline tracked, via serial number or other unique identifier)

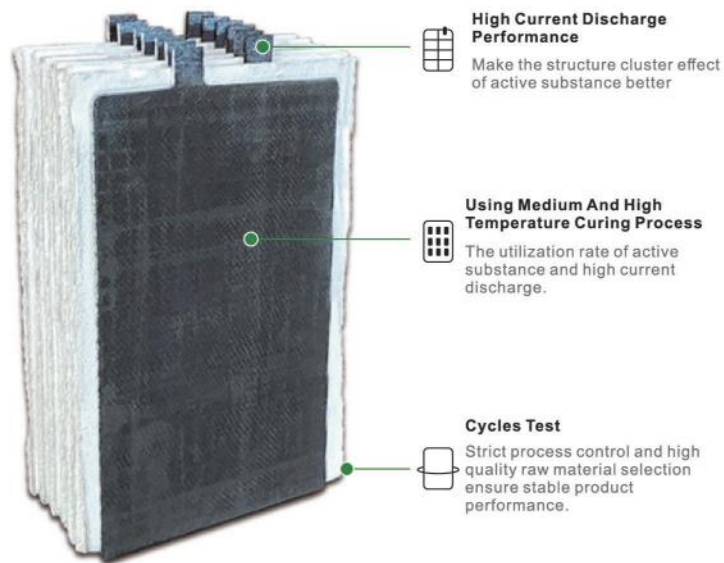


12

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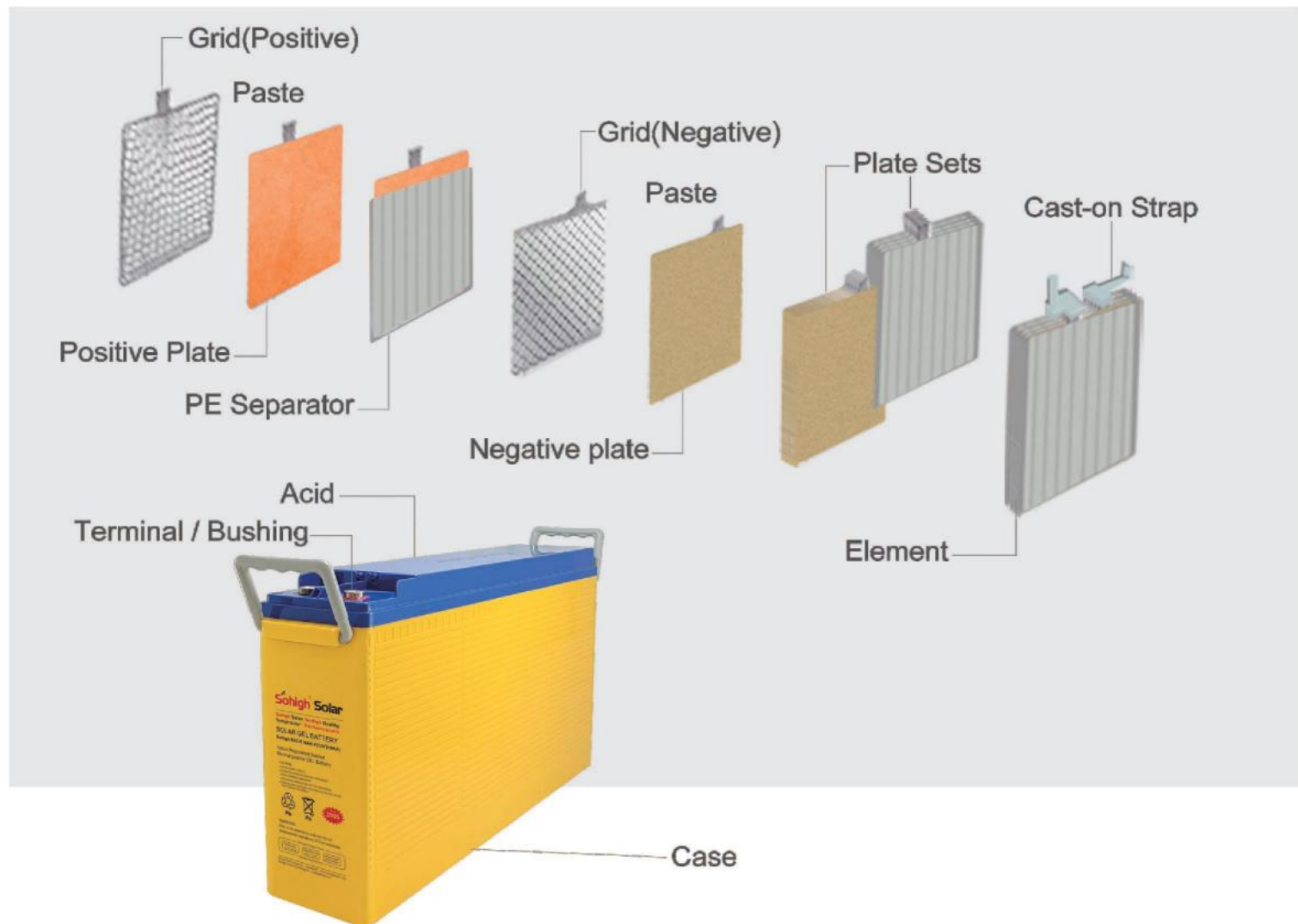
Lead-calcium Multi-element Alloy Plate



Product Features

- Solve electrolyte stratification, sulfuric acid evenly distributed.
- The silica gel electrolyte lead-acid batteries can be so deep discharge, thus greatly extending the cycle life of the battery.
- The battery float current is small (about 1/3 AGM battery), the floating charge lower energy consumption, less warming, reduce battery thermal runaway risk.
- Low self-discharge rate of the battery.
- By high partition, adsorption and strong.
- Comply with environmental requirements, ease of use.
- Longer Service Life.
- Low Internal Resistance.
- Longest Available Standby Life.
- High Energy Density.
- Lower Self Discharge.
- Good deep discharge cycle capability .
- Excellent Recovery from Deep.

Lead-Acid Battery Structure



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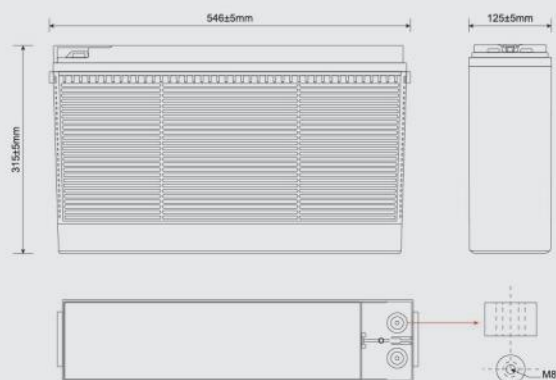
Sohigh BAT-210AH-F

12V Front Terminal Battery

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High Technology, High Quality



Dimensions (mm)



Key Features

- Safety seal, Deflating system, Simple maintenance, Long lasting, Stable quality and High reliability
- Gelled electrolyte made by mixing sulfuric acid with silica fume
- The electrolyte is gel like, immobile and does not leak, enabling uniform reaction of each part of the plate
- High rate discharge performance due to tight assembly technology
- Strong heat dissipation and wide operating temperature range
- Avoid acid mist being separated out, environment friendliness
- Efficient venting system release excessive gas automatically

Application

- Standby power supply
- UPS/Power supply
- Telecommunication system
- Solar system
- Wind system
- Power station

Technical Parameter

Model	Sohigh BAT-210AH-F
Cells Per Unit	6
Voltage(V)	12V
Terminal Type	T18
Capacity	210Ah@10hr-rate to 1.80V per cell @25°C
Max. Discharge Current	2000A(5 sec)
Internal Resistance	Approx. 3.8mΩ
Recommended Maximum Charging	60A
Operating Temperature range	Discharge:-20°C~60°C, Charge:0°C~50°C, Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8V DC/unit Average at 25°C
Equalization and Cycle service	14.4 to 14.6V DC/unit Average at 25°C
Designed floating life(20°C)	12 years
Self Discharge	Gel batteries can be stored for more than 6 months at 25°C Self-discharge ratio less than 3% per month at 25°C Pls charge batteries before using

*Product specifications are subject to change without further notice

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Sohigh BAT-150AH-F

12V Front Terminal Battery

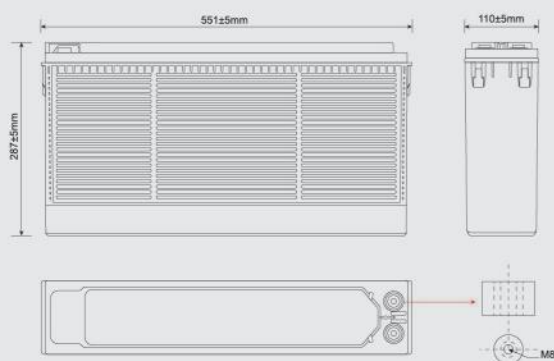
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Key Features

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- Gelled electrolyte made by mixing sulfuric acid with silica fume
- The electrolyte is gel like, immobile and does not leak, enabling uniform reaction of each part of the plate
- High rate discharge performance due to tight assembly technology
- Strong heat dissipation and wide operating temperature range
- Avoid acid mist being separated out, environment friendliness
- Efficient venting system release excessive gas automatically

Dimensions (mm)



Application

- Standby power supply
- UPS/Power supply
- Telecommunication system
- Solar system
- Wind system
- Power station

Technical Parameter

Model	Sohigh BAT-150AH-F
Cells Per Unit	6
Voltage(V)	12V
Terminal Type	T18
Capacity	150Ah@10hr-rate to 1.80V per cell @25°C
Max. Discharge Current	1500A(5 sec)
Internal Resistance	Approx. 5mΩ
Recommended Maximum Charging	45A
Operating Temperature range	Discharge:-20°C~60°C, Charge:0°C~50°C, Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8V DC/unit Average at 25°C
Equalization and Cycle service	14.4 to 14.6V DC/unit Average at 25°C
Designed floating life(20°C)	12 years
Self Discharge	Gel batteries can be stored for more than 6 months at 25°C Self-discharge ratio less than 3% per month at 25°C Pls charge batteries before using

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Sohigh BAT-105AH-F

12V Front Terminal Battery

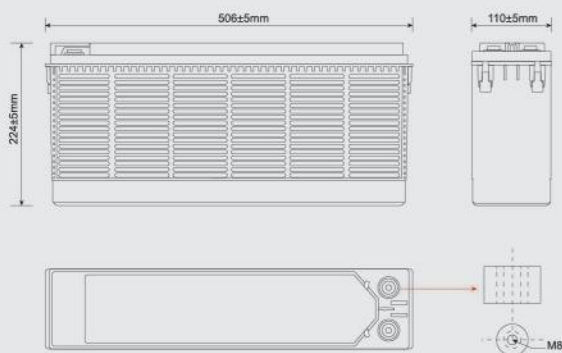
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Dimensions (mm)



T18

Application

- Standby power supply
- UPS/Power supply
- Telecommunication system
- Solar system
- Wind system
- Power station

Technical Parameter

Model	Sohigh BAT-105AH-F
Cells Per Unit	6
Voltage(V)	12V
Terminal Type	T18
Capacity	105Ah@10hr-rate to 1.80V per cell @25°C
Max. Discharge Current	1000A(5 sec)
Internal Resistance	Approx. 5.5mΩ
Recommended Maximum Charging	30A
Operating Temperature range	Discharge:-20°C~60°C, Charge:0°C~50°C, Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8V DC/unit Average at 25°C
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