MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SHUANGDENG

6-SPB-50B

SUPER POWER LEAD-CARBON BATTERY

Used with the applicable 6-SPB Series configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Shuangdeng 6-SPB Series Super Power Lead-Carbon Battery; V4.0 20220114EN; local manufacturer catalog, PDF pages 1-4.



6-SPB Series

Super Power Lead-Carbon Battery

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shoto

Make full use of internet platform
Big Data cloud storage
Service for customers worldwide

Shoto firmly promote green low-carbon career and always fulfill the concept of “new energy, circularity and high-tech”, to manage from the five link key aspects: design, development, green purchasing, system management, recycling, energy conservation and emissions reduction to create green model for the industry, to create a green life for human beings and store a green future for the earth.

Explore actively
To find an ever-increasing energy new world

Power

New clean and efficient power energy, to provide endless power for the social development;

Communication

Possess all series of energy storage solutions and provide firm green

Telecom

Becoming the core of constructing the future smart grid center;

Recycling

Take the lead in building circulation industry chain, make renewable energy, restore a healthy earth.

Pursue the perfection
To build up a strong and sustainable enterprise

Shoto has owned several honors such as “National environment friendly enterprise”, “National key high-tech industry group”, “ China's top 100 electronic information enterprises ”, ” Global 500 new energy enterprises”.

Converge global industry experts and unite research institutes
Collaborate with customers to develop the world's leading energy storage systems

The establishment of the Chinese Academy of Sciences in cooperation with the establishment of the Advanced Energy Development Research Center, academicians workstation, post-doctoral research station, state-level enterprise technology center have take on the 863 and other national research projects and research and develop the world forward-looking high-end new energy projects.

Main Applications

- Vehicle starting
- Generator system starting
- Hybrid electric vehicle starting
- Start-Stop system

Benefits

- Strong Starting Ability: Cold starting current is up to 16C_{20}, is two times than the ordinary battery
- Excellent Anti-vibration Performance: Anti-vibration performance is 15 times than that of ordinary battery, all kinds of complicated road conditions are available
- Long Cycle Life: The starting life is more than 180000 times, 3 times longer than ordinary battery

Technical Features

- The adoption of the cold rolled grid technology and ultra-thin plate, the battery has higher surface area, lower the internal resistance,after starting, the battery is charged very fast and the harm reduced for the long time charge
- With a new valve-sealed design, there is no acid-leak-age, not restricted by space, the battery can be placed in any direction
- With the unique spiral wound design and cylindrical column structure, the battery has good structural stability, and no bulging
- Adopt the lead-carbon capacitance technology， the sulfation is signicantly improved, the psoc cycle life is greatly extended



The 6-SPB series Super Power Lead-Carbon Battery is newly developed by Shuangdeng Group with high-energy and environmentally-friendly perfor-mance. Added independently-developed composite carbon material, the electrical con-ductivity and the specific surface area of negative active material are improved and a continuous conductive network is founded; Finally, the new battery is up to 2 times charge acceptance compared with common starting battery. With unique spiral winding structure, high purity lead skeleton, high assembly pressure, ultra-thin plate design and low resistance, the battery has many excellent performances: starting life prolonged to 3 times than normal; seismic behavior improved to 15 times than normal; Therefore, a more robust power provided by the Spiral battery ,the car could be started in an instant, moreover the motor wear is reduced.

Passion for Storage and Green Energy

Specification



6-SPB-25



6-SPB-40



6-SPB-50A



6-SPB-50B

	6-SPB-25	6-SPB-40	6-SPB-50A	6-SPB-50B
Nominal Voltage	12	12	12	12
Reserve Capacity (min, 25°C)	48	85	105	105
20hr Capacity (Ah,25°C)	28	45	55	55
Length (mm)	203	239	256	247
Width (mm)	138.5	173.5	168.5	175
Height of Monobloc (mm)	162	158	204	183
Total Height (mm)	179	175	221	200
Internal Resistance (mΩ)	4.0	3.0	2.9	2.9
Cold Crank Ampere (A)	480	750	850	850
Weight (kg)	9.5	15	18	18



6-SPB-50C



6-SPB-75

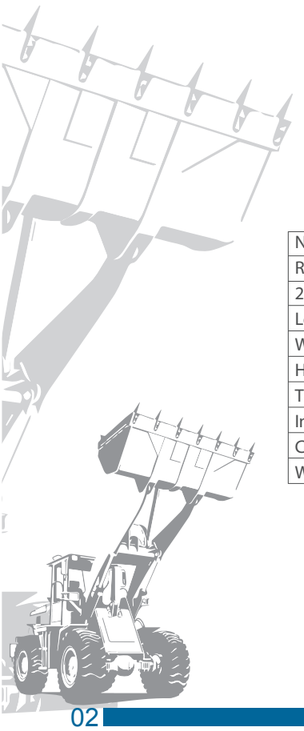


6-SPB-75C

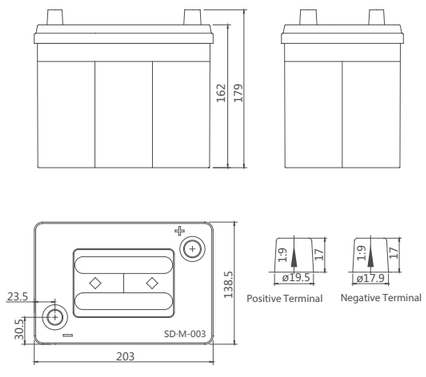


6-SPB-100

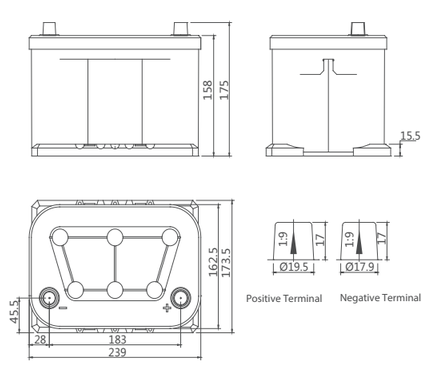
	6-SPB-50C	6-SPB-75	6-SPB-75C	6-SPB-100
Nominal Voltage	12	12	12	12
Reserve Capacity (min, 25°C)	105	165	165	220
20hr Capacity (Ah,25°C)	55	80	80	100
Length (mm)	247	263	263	302
Width (mm)	175	178.5	178.5	204.5
Height of Monobloc (mm)	183	240	240	240
Total Height (mm)	205	257	261	257
Internal Resistance (mΩ)	2.9	2.4	2.4	2.3
Cold Crank Ampere (A)	850	1050	1050	1050
Weight (kg)	18	25	25	32



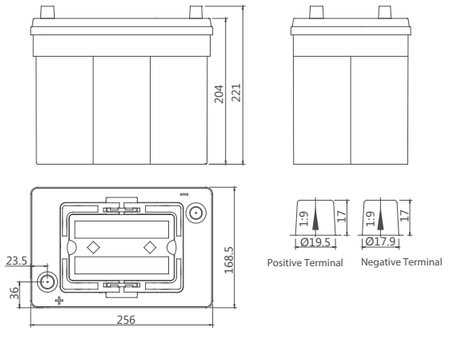
Drawings



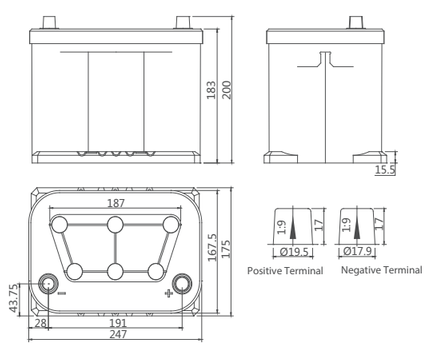
6-SPB-25



6-SPB-40

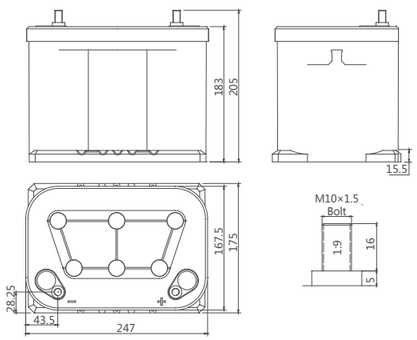


6-SPB-50A

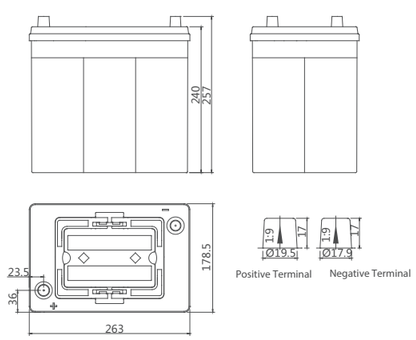


6-SPB-50B

Drawings

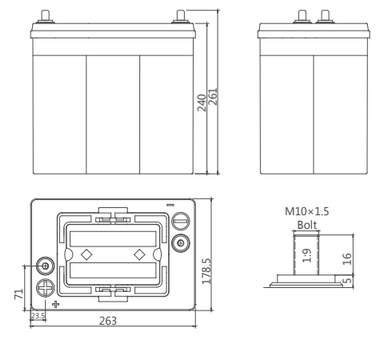


6-SPB-50C

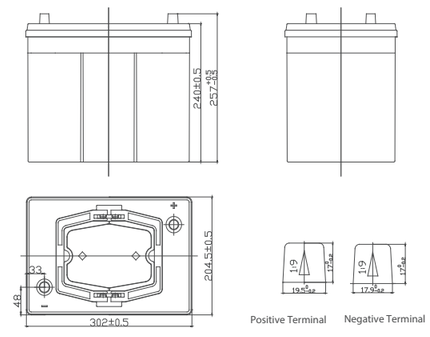


6-SPB-75

Drawings



6-SPB-75C



6-SPB-100



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