

6-SPB Series

Super Power Lead-Carbon Battery

6-SPB-50A



Main Applications

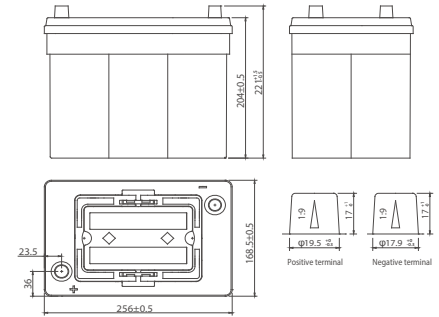
- ▣ Vehicle starting
- ▣ Generator system starting
- ▣ Start-stop system
- ▣ Hybrid electric vehicle starting



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

Dimensions



Certification

- ISO 9001
- ISO 14001
- ISO 18001
- ISO/TS 16949

Technical Parameters

Nominal Voltage	12 V
Capacity	55 Ah @ 20hr to 1.75 V per cell @ 25°C (77°F)
Weight	18 kg (39.68 lbs)
Dimensions	Length:256 mm (10.08 in) Width:168.5 mm (6.63 in) Height: 204 mm (8.03 in) Total height:221mm (8.70 in)
Internal Resistance (full charged)	2.9 mΩ
CCA	850 A(SAE)
Reserve Capacity@25°C (77°F)	105 min
Temperature	-45°C ~ 75°C (-49°F ~ 167°F)
Separator	AGM
Seal Reaction Efficiency	100%
Storage Period without Charging	6 months
Max Charge Current	$4.5C_{20}$
Max Discharge Current	$18C_{20}$
Cycle Charge Voltage@25°C (77°F)	14.5 V~15.0 V

Compliant Standards

- GB/T 5008.1
- IEC60095.1
- EN50342

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-leakage, 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
- ▣ Added independently-developed composite carbon material, the sulfation is significantly improved, the psoc cycle life is greatly extended

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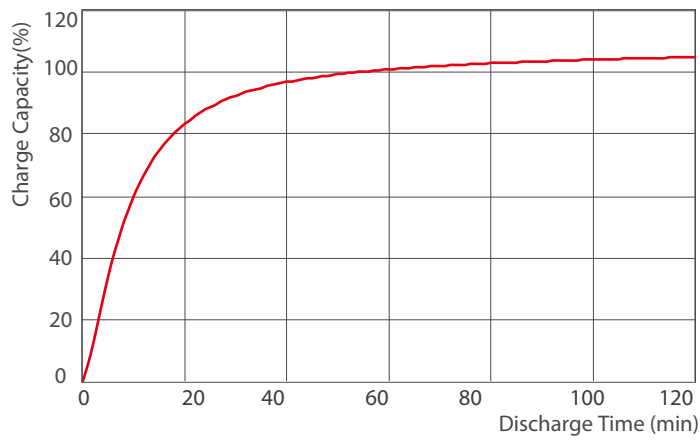
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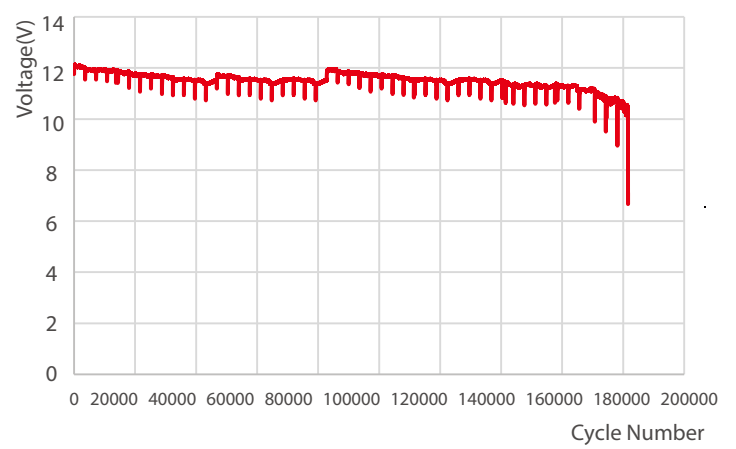


Performance Curves

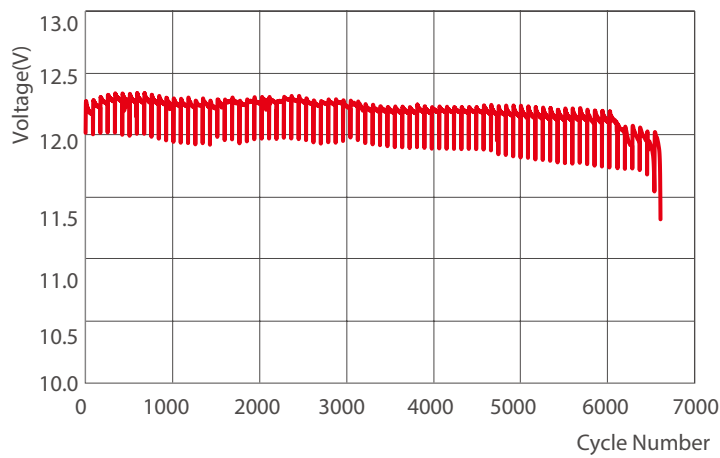
Quick Charge Performance Curve



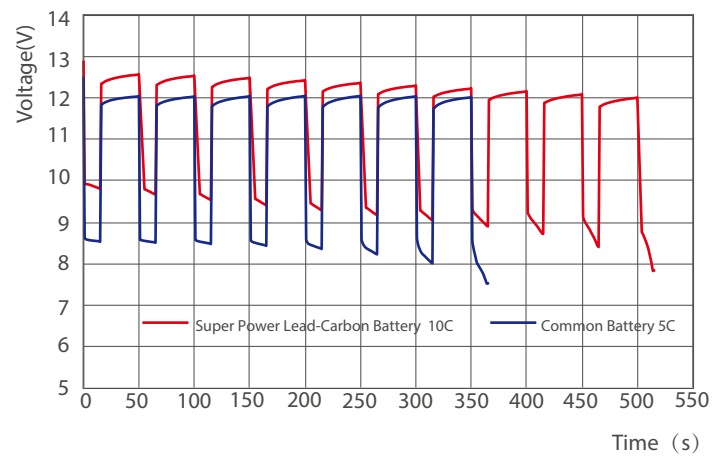
Start Life (25°C)



Cycle Life at 25°C and 17.5% Depth of Discharge



Start Performance at -40°C



Declaration: This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.



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