



## Introduction

- The product of 6-SPB series is a newly developed Spiral Battery by Shoto Group. With the unique winding structure, high assembly pressure and valve opening pressure, the battery dehydration is greatly reduced. Compared to ordinary battery, the battery has a superior high temperature discharge performance and large current discharge performance, greater security and better fast charging capability and so on.
- The product is protected by five patents, namely: 02112897.9、03152809.0、03221098.1、200310112676.1、200510040205.3

## Main Application

- Uninterruptible power supply (UPS)
- Telecom
- Solar energy storage
- Smart grid
- Different standby power supply

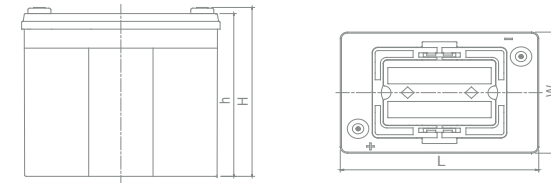
## Benefits

- Excellent high temperature performance: applicable in  $-45^{\circ}\text{C} \sim 75^{\circ}\text{C}$ ,
- efficient, stable, energy saving and environmental protection;
- Super long life: the cycle life of 100% DOD reaches more than 350 times, the designed float life is 15 years and 10 years for the solar application;
- Higher power density: the time of high rate discharge is more than conventional battery, the acquisition cost and place space could be saved for customers.

## Technical Features

- With ultra-thin pure lead frame design, the reaction area is three times than normal, the side reaction is reduced, a higher charge efficiency is achieved
- With unique spiral wound design and cylindrical column structure, combined with up to 50kpa valve opening pressure, the dehydration and bulging deformation of the battery are avoided in high-temperature
- Excellent fast charging performance, more than 95% of electricity is gained within 40 hours
- Good battery consistency, available more strings in parallel, higher safety, more convenient when installation and maintenance

## Drawings



## Specification



	6-SPB-25	6-SPB-40	6-SPB-50	6-SPB-75	6-SPB-100
Nominal Voltage(V)	12	12	12	12	12
Length(mm)	203	239	256	263	302
Width(mm)	139	174	169	179	205
Height of Monobloc(mm)	162	158	204	240	240
Total Height(mm)	171	166	213	249	249
10hr Capacity(Ah, 25°C)	25	40	50	75	100
Terminal	M6	M6	M6	M6	M6
Terminal Torque(Nm)	9~11	9~11	9~11	9~11	9~11
Internal Resistance (mΩ)	4.0	3.0	2.9	2.4	2.3
Short Circuit Current(A)	1157	1855	2251	2695	2985
Weight(kg)	9	14.5	18	25	32