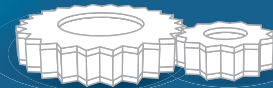


# 6-GFM

Series VRLA Battery



shoto

power the future





## 1. Introduction

6-GFM Shoto brand VRLA battery is a high-capacity battery with the latest modern technology. Its performance can meet the standard of YD/T799-2002 and IEC. This product has many advantages, such as, safe and reliable seal, high specific energy, low resistance, low self-discharge, good charge acceptability, long cycle life, high recombination efficiency. There is no redundant electrolyte in normal application, and no acid smog spray. With easy usage and maintenance, it is widely applied in telecom system, UPS, fire alarming and security system, emergency lighting system, mobile measuring equipment, power supply system, apparatus and instrument, military facilities, railway transportation and auto control equipment.

## 2. Product Characteristics

- Battery case and lid are made of high-strength ABS in a compact structure, characterized by the good resistance to impact and vibration.
- Grid (patent: ZL 01 2 72477.7) is made of special lead-based multi-element alloy, having virtues of low resistance, and good corrosion-resistance for a long cycle life of battery.
- New process of plate production are applied to improve the utilization of active material.
- Ultra fine fiberglass separator (patent: ZL 01 1 27020.9), good performance in high current discharging.
- High-purity electrolyte and special additive (patent: ZL 02 1 12896.0), low self-discharge.
- Multi-layer sealing technology and special seal glue are applied to ensure the safety and reliability of battery with no leakage and no acid smog spray.

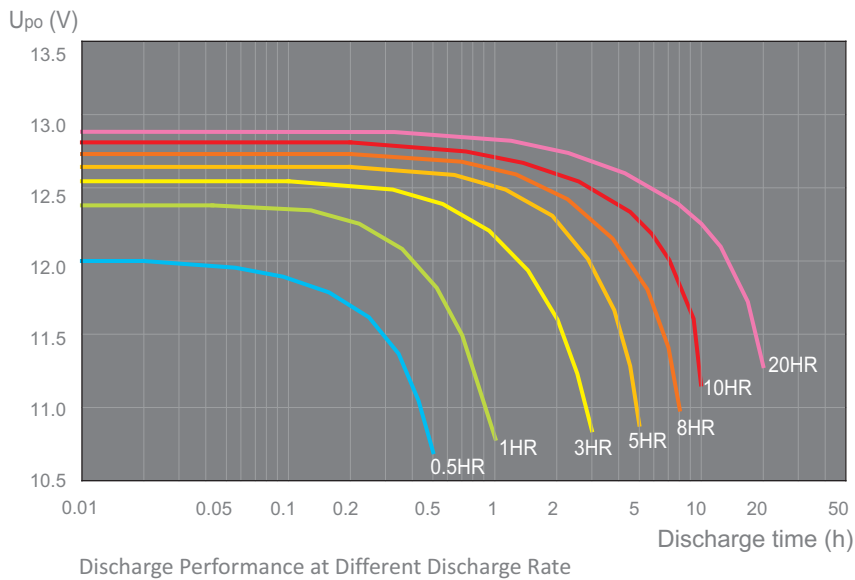
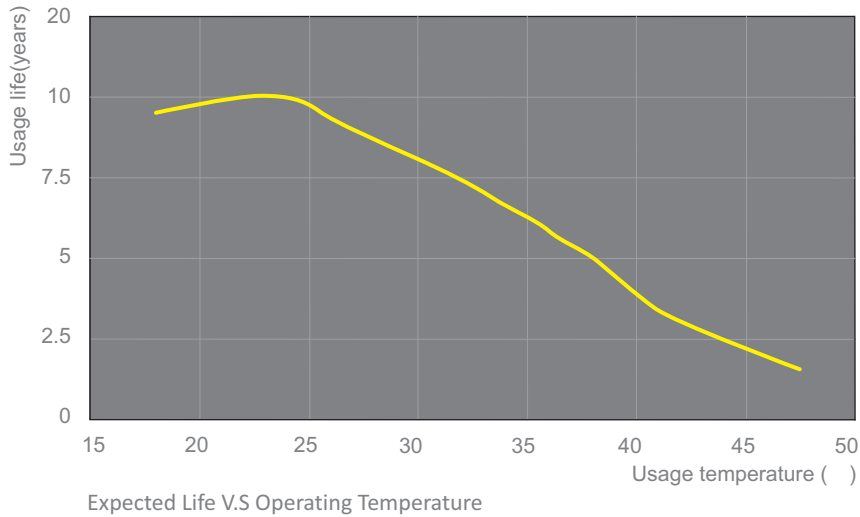
## 3. Specifications and Type

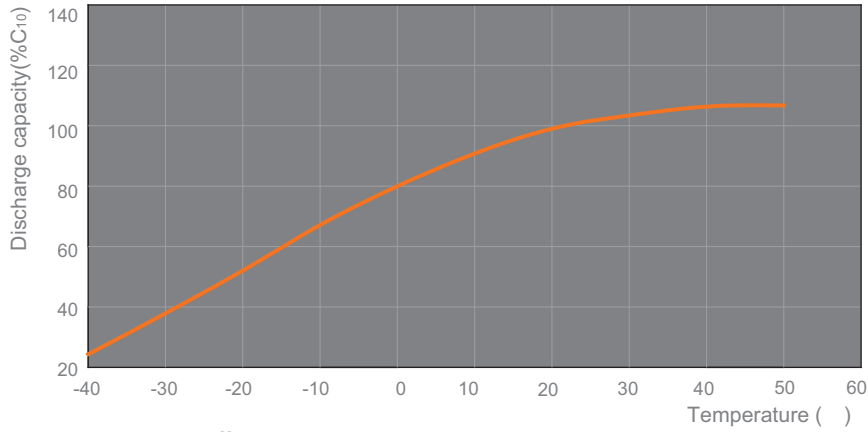
No.	Battery type	Rated voltage(V)	Outer sizes (mm)				Reference Weight (kg)
			L	W	H	Total Height	
1	6-GFM-24	12	165	125	175	180	10
2	6-GFM-38	12	197	165	175	180	14
3	6-GFM-50	12	259	133	190	210	18
4	6-GFM-65	12	258	168	208	214	22
5	6-GFM-80	12	258	168	208	214	24
6	6-GFM-100	12	331	174	213	220	30
7	6-GFM-150	12	496	203	226	236	50
8	6-GFM-200	12	496	259	226	236	63

#### 4. Main Technical Specifications

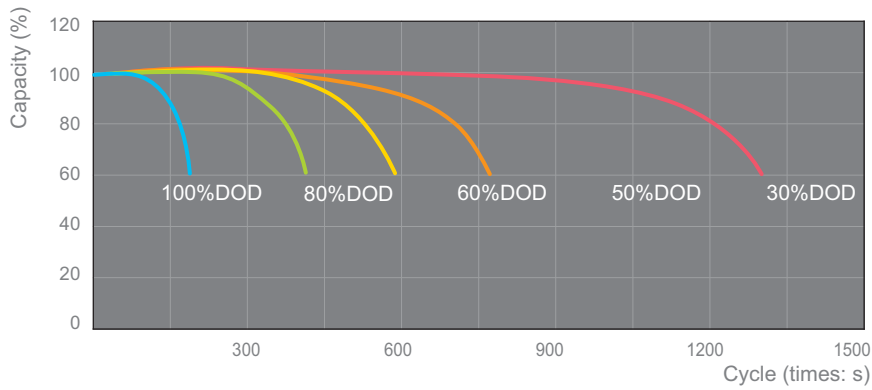
- > Floating service life under normal operation at 25 °C would be 10 years;
- > No leakage and no acid smog during the usage of battery, no need to add acid or water;
- > Self-discharge rate is under 4% (at 25 °C, 28 days);
- > Ambient operating temperature: -15 °C ~ +45 °C ;
- > Recombination efficiency: >96%.

#### 5. Main Performance Curves

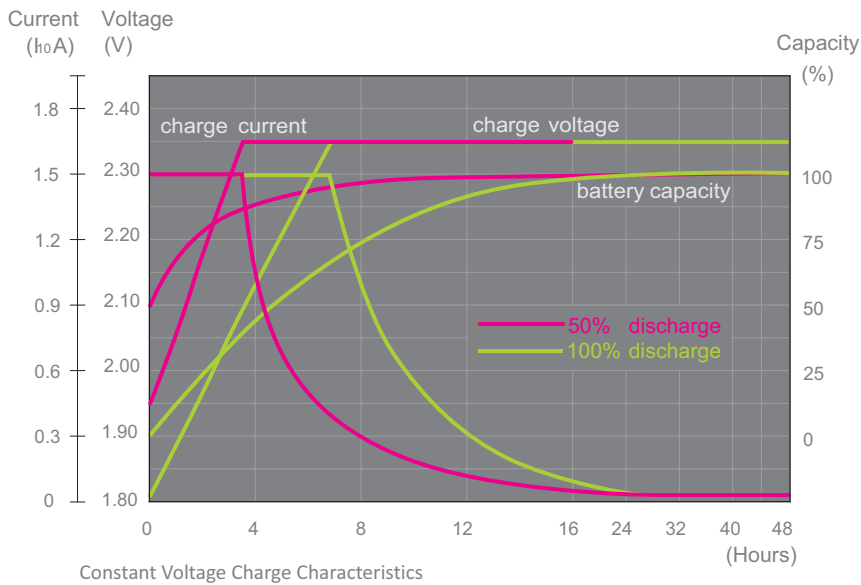




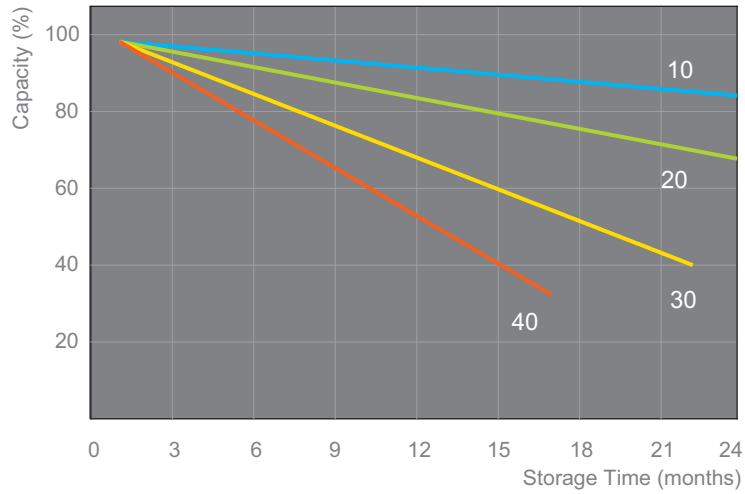
Capacity at Different Temperature



Life at Different DOD



Constant Voltage Charge Characteristics



Curve of Storage Time and Self-discharge at Different Temperature

all data and specifications are subject to change without notice.

© 2009 China Shoto plc, All Rights reserved !



Tel: +86-25-8317 6852

Fax: +86-25-8317 6850

<http://www.chinashoto.cn>

Email: [gjpt@chinashoto.com](mailto:gjpt@chinashoto.com)

Free service: +86-25-8317 6860

Jiangsu Shuangdeng Group Co.,Ltd.

