

## 6-GFM 系列阀控密封铅酸蓄电池

### 6-GFM Series VRLA Battery

#### 一、产品简介 Brief Introduction

“双登”牌 6-GFM 型阀控密封铅酸蓄电池，是采用当代先进技术研制开发的新型高能蓄电池，各项性能指标符合 YD/T799-2002 及 IEC 标准。该产品具有密封安全可靠，比能量高，内阻小，自放电率低，充电接受能力强，循环寿命长，密封反应效率高等诸多优点。在正常使用时无游离电解液，无酸雾溢出，维护使用方便，可广泛用于电信通讯系统、不间断电源（UPS）、报警消防及保安系统、紧急照明系统、移动测量设备、电力系统、仪器仪表、军事领域、铁路系统、自动控制设备等领域。

6-GFM valve-regulated lead-acid battery of Shuangdeng brand is a high-capacity battery of new model that is developed with the latest modern technology. Its performance can meet the standard given in YD/T799-2002 and IEC. This product has many advantages, such as, safe and reliable seal, high specific energy, low resistance, low rate of self-charge, good charge receptivity, long cycle life, high seal reaction efficiency. There is no redundant electrolyte in normal use, and no acid smog spray. With easy usage and maintenance, it is intended for service in telecom system, UPS, fire alarming and security system, emergency light system, mobile measuring equipment, power supply system, apparatus and instrument, military facilities, railway transportation and auto control equipment.

#### 二、产品特点 Product Characteristics

- 高强度 ABS 塑料电池槽、盖，结构紧凑，具有耐冲击，抗震动性能好的特点。

Battery case and lid are made of high-strength ABS in a compact structure, characterized by the good resistance to impact and vibration.

- 特种铅基多元合金板栅（ZL 01 2 72477.7），内阻小，耐腐蚀性好，充电接受能力强。

Grid plate (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.

- 新型极板制造工艺，活性物质利用率高。

New process of plate production are applied to improve the utilization of active material.

- 优质超细玻璃纤维隔板（ZL 01 1 27020.9），大电流放电性能好。

- Ultra fine fiberglass separator(patent: ZL 01 1 27020.9) with low resistance is used to achieve a good performance in discharging with large current.

- 高纯度电解液和特殊添加剂 ( ZL 02 1 12896.0 ), 自放电小。
- High-purity electrolyte and special additive(patent: ZL 02 1 12896.0) are used to reduce the internal resistance of the battery.  
多层密封技术和特殊的密封胶, 确保电池无泄漏, 无酸雾逸出, 安全可靠。
- Multi-layer seal technology and special seal glue are applied to ensure the safety and reliability of battery with no leakage and no acid smog spray.

### 三、规格型号 Specifications and Type

序号 No.	电池型号 Battery type	额定电压(V) Rated voltage(V)	长(mm) L	宽(mm) W	高(mm) H	总高 ( mm ) Total Height	参考重量 ( kg ) Reference Weight
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 - 120	12	405	171	223	231	37
8	6 - GFM - 150	12	496	203	226	236	50
9	6 - GFM - 200	12	496	259	226	236	63

### 四、主要技术指标 Main Technical Specifications

- 25 正常使用条件下, 浮充寿命可达到 6 年 ;  
Float charge service life under normal operation at 25 would be 6 years ;
- 蓄电池在使用中不漏液, 不产生酸雾, 使用期间不用加酸加水 ;  
No leakage and no acid smog during the usage of battery, no need to add acid or water ;
- 自放电小于 4% ( 25 、 28 天 );  
Self-discharge rate is under 4% ( at 25 , 28 days );
- 深循环寿命 600 ( 80%DOD );  
Deep cycle life 600 ( 80%DOD );
- 工作环境温度 : -15 ~ +45 ;  
Ambient operating temperature : -15 ~ +45 ;
- 密封反应效率 : > 96%。  
Seal reaction efficiency : > 96%。

## 五、主要性能曲线 Main Performance Curves

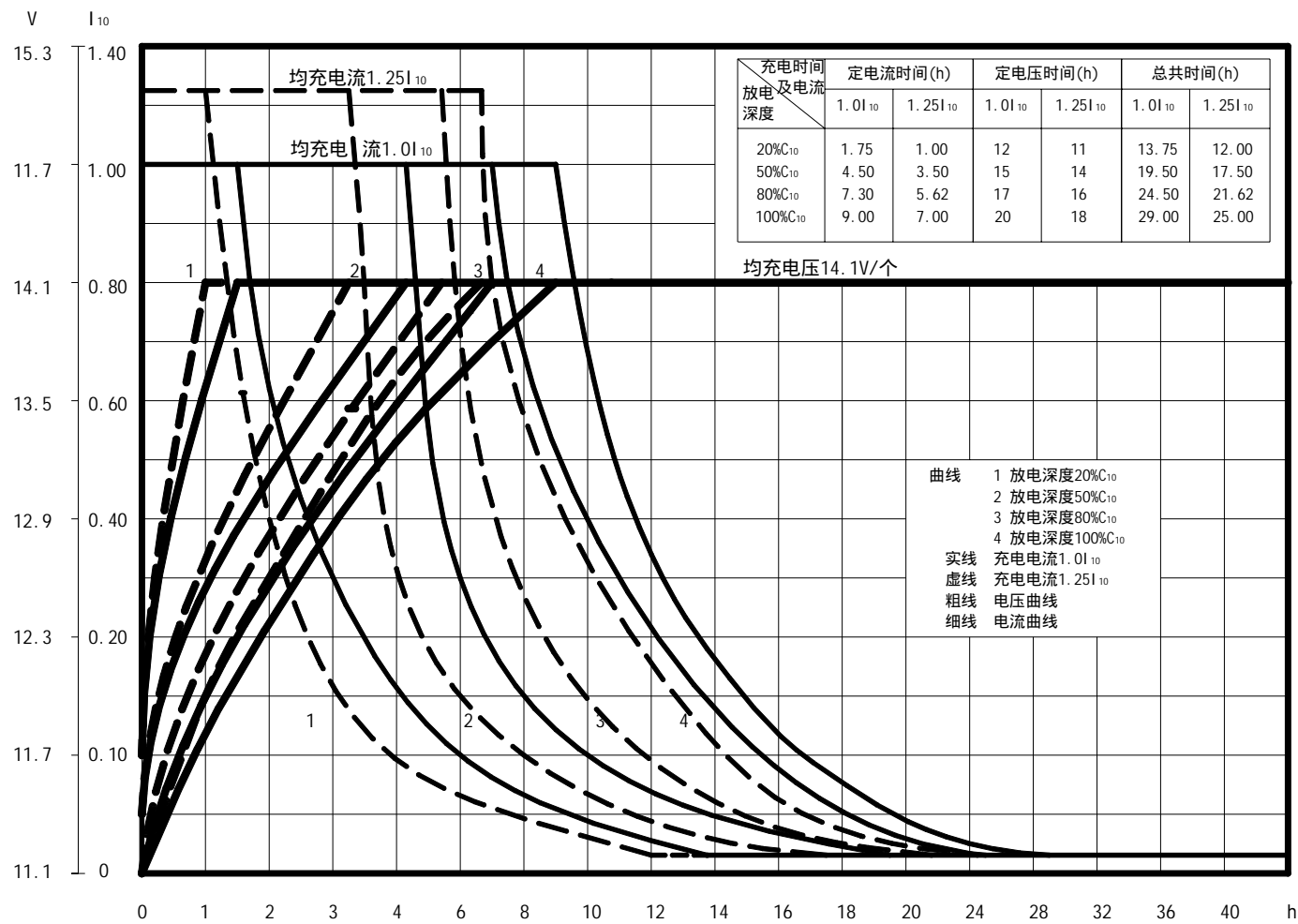


图 1 6-GFM 蓄电池在不同放电深度、不同均充电流时的充电特性 (25 )  
 Chart 1 Charging characters of 6-GFM battery at different depth of discharge with different currents of balancing charge (25 )

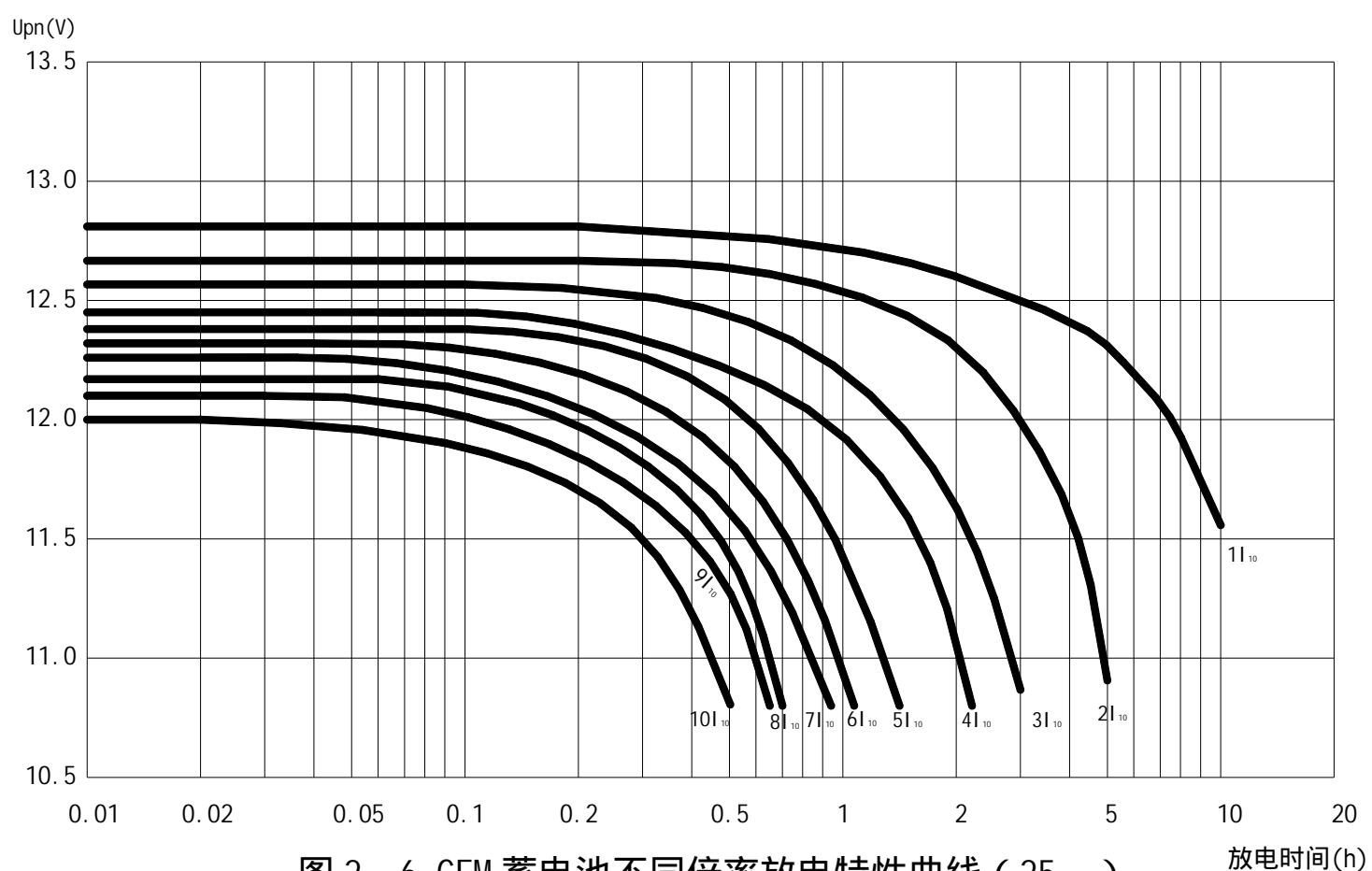


图 2 6-GFM 蓄电池不同倍率放电特性曲线 (25 )  
 Chart 2 characteristic curve of 6-GFM at different discharge rate (25 )