



6-GFM-200Ah Valve-regulated Lead Acid Battery Specification

We are an ISO9001 certified organization. And the products are approved by CE&UL. The nominal voltage of this series is 12V. And the capacity ranges from 33Ah to 250Ah. Their typical applications include: Emergency lighting systems, Electricity power supply systems, Communication systems, UPS systems, Starting systems, Solar systems etc.

Battery Construction

Component	-----	Material
Positive Plate	-----	Lead Dioxide
Negative Plate	-----	Lead
Container	-----	ABS
Cover	-----	ABS
Safety Valve	-----	Rubber
Terminal	-----	Copper
Separator	-----	AGM glass
Electrolyte	-----	Sulfuric Acid

General Features

Maintenance free
Convenient for installation
Safety and no leakage
Excellent recharge and discharge performance
Low self-discharge rate, charge each standby 6 months, temperature 25°C
Adapt to high or low temperature
Good deep discharge performance
Longer cycle life
UL approval

Performance Characteristics

1. Dimension and Weight

Length	-----	522mm
Width	-----	240mm
Height	-----	219mm
Total Height	-----	223mm
Reference Weight	-----	57.9kg

2. Functional Parameter

Rated Voltage	-----	12V
Numbers of cells	-----	6 Cells
Designed Life	-----	3~5 Years

3. Rated Capacity at 25°C(77°F)

10 hours rate (0.1C, 10.8V)	-----	200Ah
3 hours rate (0.25C, 10.8V)	-----	153.3Ah
1 hours rate (0.55C, 10.5V)	-----	110.4Ah

4. Capacity Affected by Temperature(10 hours rate)

40 °C (104°F)	-----	103%
25 °C (77 °F)	-----	100%
0 °C (32 °F)	-----	85%
-15°C (5 °F)	-----	65%

5. Charge Method: Constant-Voltage Charging at 25°C(77°F)

Cyclic Use	-----	14.4~14.9V
Maximum Charging Current	-----	50A
Temperature Compensation	-----	-30mV/°C
Float Use	-----	13.6~13.8V
Temperature Compensation	-----	-20mV/°C

6. Environment Temperature Requirements

Discharge Temperature	-----	-15~50°C
Charge Temperature	-----	0~40°C
Storage Temperature	-----	-15~40°C

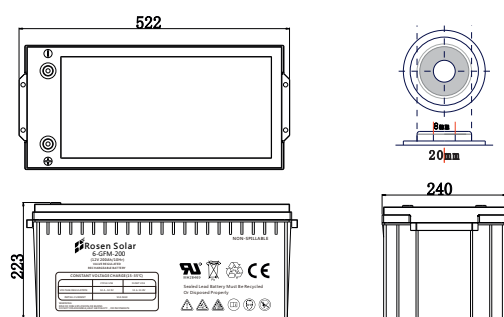
7. Inner Resistance & Max. Discharge Current

A fully charge battery at 25°C(77°F)	-----	3mΩ
Max. Discharge Current	-----	3000A(5S)
Short Circuit Current	-----	10000A

8. Self-discharge

3% of the capacity per month at 25°C(77°F)		
Capacity after 3 month storage	-----	91%
Capacity after 6 month storage	-----	82%
Capacity after 12 month storage	-----	64%

Dimensions(mm)



3D Model Review



Constant-Current Discharge Parameter Unit: A(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/Cell	459.6	343.8	276.4	226.3	179.6	134.0	105.6	51.1	33.6	20.0	10.4
1.75V/Cell	518.0	377.8	302.0	243.3	186.4	138.9	110.4	52.0	34.4	20.2	10.5
1.70V/Cell	570.4	411.8	322.4	255.8	194.0	144.4	114.0	53.6	35.3	20.4	10.7
1.65V/Cell	629.1	444.4	342.9	271.8	204.7	148.2	117.8	55.8	36.2	20.8	10.8
1.60V/Cell	693.8	482.4	366.7	289.6	216.0	154.4	122.0	57.6	37.6	21.0	10.9

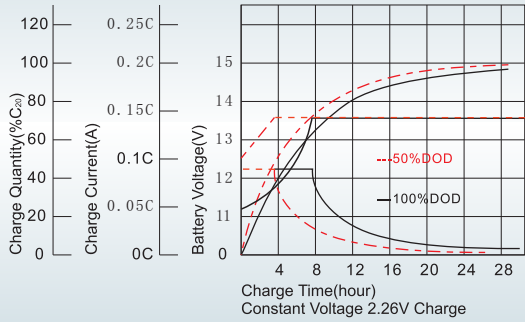
Constant-Power Discharge Parameter Unit: W(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/Cell	831.1	627.8	509.1	420.2	336.9	255.3	202.7	99.1	65.6	39.6	20.6
1.75V/Cell	917.1	678.7	549.1	447.8	346.9	262.4	211.1	100.4	67.1	39.8	20.7
1.70V/Cell	982.0	722.9	578.2	467.1	359.1	272.0	216.9	103.1	68.7	40.2	21.1
1.65V/Cell	1067.6	773.1	610.0	492.4	375.8	276.2	222.7	106.9	70.2	40.9	21.4
1.60V/Cell	1150.2	820.2	641.6	518.9	393.8	286.4	229.3	109.8	72.2	41.3	21.5

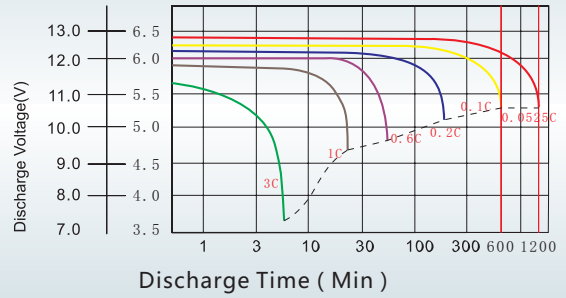


6-GFM-200Ah Valve-regulated Lead Acid Battery Specification

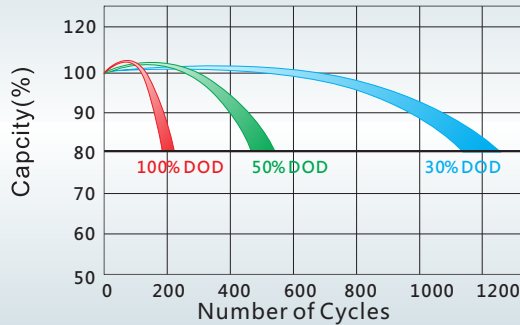
Charge Characteristics for Float Use @25°C/77°F



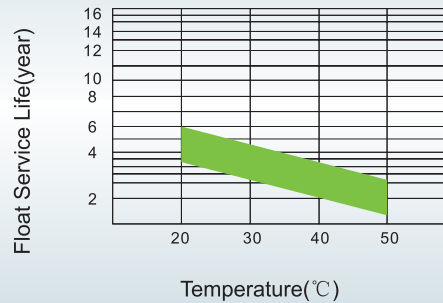
Discharge Characteristics at Various Rates @25°C/77°F



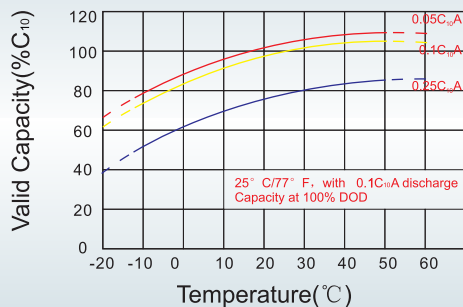
Cycle Life in Relation to Depth of Discharge



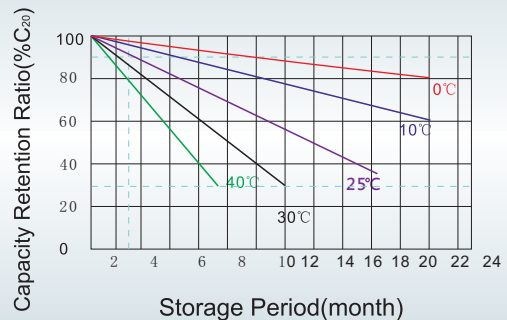
Float Service Life



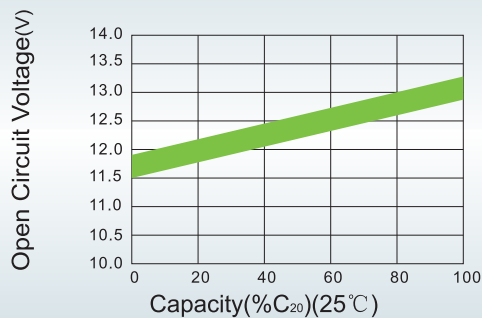
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

