**GFM Series DEEP CYCLE Battery** 

GFM-200

2Volt

200ah @10hr 210ah @20hr

VRLA GEL / Non Spilable / Maintenance Free



GFM series battery utilizes AGM and GEL mixed technology, componsed of strong grids, high purity lead and fumed silica Gel electrolyte with good cycle life and wide temperature range performance. The unique plate design and patented structure design provides the excellent frequent

cyclic discharge performance.

# SPECIFICATION

Nominal Vol	tage	2V (1 cells)								
Nominal Cap	acity									
20-HR. to 10.8V	10-HR to 10.8V	5-HR to 10.8V	3-HR to 10.8V	1-HR to 10.5V						
210Ah	200Ah	171Ah	153Ah	111Ah						
Approximate	Net Weight		12.9	kg (28.43 lbs)						
Internal Resis	<0	.73 milliohms								
Max. Chargir	ng Current			50A						
Charging volt	200		Equalize: 2.35V @25°C(77°F)							
Charging wit	age		Standby: 2.25V @25°C(77°F)							
Terminal				М8-Ф20						
Operating Te	mp. Range		-50°C to 65°C	(-58°F~149°F)						
Advice Opera	ating Temp.		15°C~25°C(59°F~77°F)							
Self Discharg	je									
1 month				97%						
3 month		91%								
6 month				83%						
	•		month at 25°C . T nen a freshening ch							
Case and cov	er	A.B.S. UL94-V0 Optional.								
Design Life tir	me	15 years								

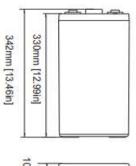


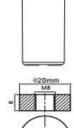
## FEATURE

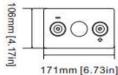
- Specifically designed for Solar and energy storage applications
- Use multiple rare-earth alloy of independent intellectual property right and special lead paste formulations
- Usage of imported low -resistant raw materials and advanced process
- Patented nanometer level gel electrolyte
- Low self-discharge rate, better deep discharge tolerance, strong recover capability of capacity
- Wide temperature range
- Valve regulated, maintenance free nonspillable



### **DIMENSIONS** (mm/in)











CONSTANT CURRENT DISCHARGE (UNIT: A)



CONSTANT POWER DISCHARGE (UNIT: W/CELL)

30m in	45m in	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	F.V Time	30m in	45m in	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
139.6	110.2	96.4	61.6	47.1	37.7	31.8	138.3	22.5	18.8	1.85V	269.6	214.0	187.7	120.8	91.8	74.4	62.8	54.5	44.5	37.2
157.5	123.3	106.9	67.1	50.9	40.6	34.2	29.7	24.2	20.0	1.80V	302.3	237.3	206.5	130.7	99.2	79.6	67.3	58.3	47.6	39.7
164.7	128.2	110.8	69.1	52.2	41.8	35.1	30.5	24.6	20.5	1.75V	312.6	245.1	212.6	133.9	101.4	81.4	68.7	59.4	48.4	40.1
175.8	133.1	114.8	71.4	54.2	42.7	36.0	31.1	25.1	20.8	1.70V	331.5	252.6	218.4	137.3	103.8	83.1	70.0	60.4	49.2	40.8
190.1	143.1	123.0	75.6	56.4	44.8	37.5	32.1	25.8	21.3	1.65V	351.9	267.3	211.0	143.9	108.5	86.5	72.6	62.8	50.5	41.9

www.aegbatteries.com Email: info@aegbatteries.com

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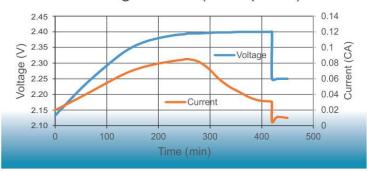
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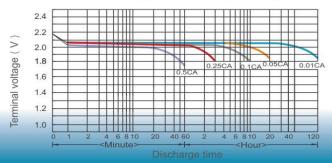
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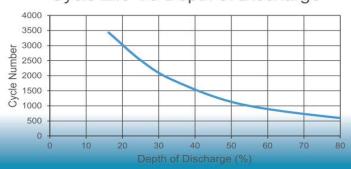
#### Charge Curve (solar panel)



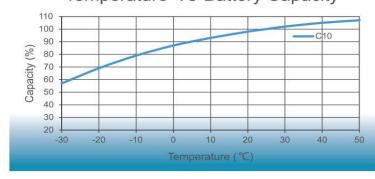
### Discharge Curve (25 °C)



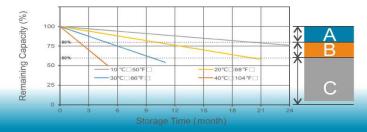
### Cycle Life Vs Depth of Discharge



### Temperature Vs Battery Capacity

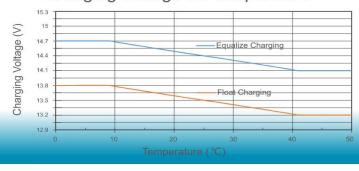


### Self Discharge Characteristics



- Charging is not necessary unless 100% of capacity is required.
- Charging before use is necessary to help recover full capacity.
- Charging may fail to restore full capacity. Do not let batteries reach this state.

#### Charging Voltage Vs Temperature



Equalize Charging: Apply constant voltage charge 14.4V at 25° C(77°F). Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Float Charging: Apply constant voltage charge of 13.5V at 25° C(77°F).

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge. 3 mV/cell/°C



- Solar / wind system
- Medical equip
- Lighting system
- Inverter
- **Power Station**





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