### 6-GFM-100

12Volt

100ah @10hr 110ah @20hr

VRLA GEL / Non Spilable / Maintenance Free



GFM series is a valva regulates AGM-GEL battery applying high purity lead with rare earth grid alloy and 4BS nucleation technique to promote the security and reliability of the battery. Fumed silica gel electrolyte improve parc of the electrolyte comparing with AGM battery when operated on float use. High consistency and high quality of production procedures provide excelent performance with long life in all applications, Telecom, UPS and other backup power applications.



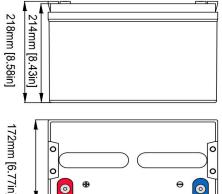
#### SPECIFICATION

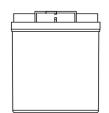
Nominal Capa				12V (6 cells)						
20-HR. to 10.8V	10-HR to 10.8V	5-HR to 10.8V	3-HR to 10.8V	1-HR to 10.5V						
110Ah	100Ah	86.1Ah	76Ah	59.2Ah						
Approximate I	Net Weight	29.3 kg (64.6 lbs)								
Internal Resis	tance (approx.)	<5.5 milliohms								
Max. Charging	g Current	25A								
Charging units			Equalize: 14.4V @25°C(77°F)							
Charging volta	age		Standby: 13.5V @25°C(77°F)							
Terminal				М8-Ф18						
Operating Ten	np. Range	-35°C to 60°C(-31°F~140°F)								
Advice Operat	ting Temp.	15°C~25°C(59°F~77°F)								
Self Discharge	е									
1 month				97%						
3 month			91%							
6 month				83%						
	ies's self discharge 5°C(77°F) and then		°C(77°F), The storage ge is required.	e period may up						
Case and cov	er	A.B.S. UL94-V0 Optional.								
Design Life tir	me	10-12 years								



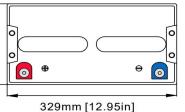
# **FEATURE**

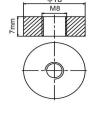
- Long design life: the designed life at the temperature of 25°C(77°F) attains to 10~12 years
- Super discharge characteristics ensures reliable performance in UPS and telecommunication applications
- High consistency of capacity: excellent production and intelligent technology, high consistency of the battery
- Excellent over discharge recovery capability
- Valve regulated, maintenance free, non-spillable
- High discharge performance, low internal resistance













## CONSTANT CURRENT DISCHARGE (UNIT: A)



### CONSTANT POWER DISCHARGE (UNIT: W/CELL)

15m in	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr	F.V Time	15m in	30m in	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
121.50	84.22	52.50	29.00	23.11	18.78	16.33	14.22	11.56	9.80	5.10	1.85V	228.70	168.80	98.00	70.50	54.30	42.00	36.30	31.10	23.80	19.80	10.40
141.40	93.90	55.80	32.00	25.33	20.33	17.22	15.11	11.89	10.00	5.49	1.80V	262.00	178.50	103.80	71.30	54.80	42.60	36.50	31.40	24.60	20.10	10.50
152.60	98.00	59.20	33.67	25.82	20.59	17.32	15.25	11.98	10.10	5.65	1.75V	277.80	186.60	105.00	71.70	55.10	43.00	36.70	31.60	25.00	20.20	10.60
160.90	99.20	61.80	34.33	26.70	21.03	17.87	15.58	12.21	10.20	5.69	1.70V	285.80	194.80	106.90	72.10	55.80	43.20	37.00	31.80	25.30	20.40	10.70
164.80	100.70	64.20	34.85	26.93	21.28	18.13	15.74	12.27	10.26	5.74	1.67V	289.70	199.30	108.80	73.50	56.70	43.50	37.70	32.00	25.50	20.50	10.80

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DEEP CYCLE Battery

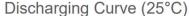
### 6-GFM-100

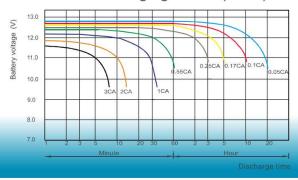
12Volt

100ah @10hr 110ah @20hr

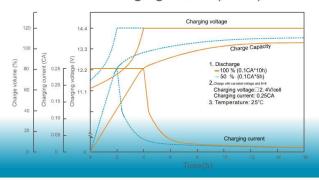
VRLA GEL / Non Spilable / Maintenance Free



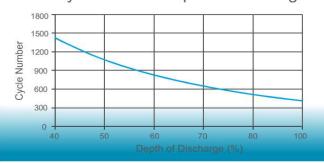




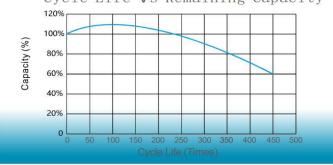
### Charging Curve (25°C)



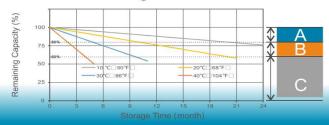
### Cycle Life Vs Depth of Discharge



#### Cycle Life Vs Remaining Capacity

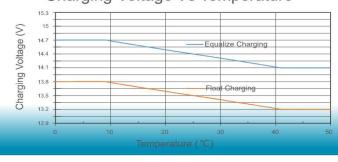


#### Self Discharge Characteristics



- A Charging is not necessary unless 100% of capacity is required.
- B 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°

**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.



- UPS/EPS
- Data Center
- Telecom
- Floating operation
- Emergency Power Suppler





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