

# GFM Series VRLA Batteries Specification



## Range Summary

GFM Series VRLA Battery are designed as standby power for communication, power, military and broadcast and television system. Elegant design with high energy density, latest improved technology are adopted in this series, design life is above 12 years.

## Products Characteristics

- Recommended float charge voltage for 2V battery: 2.25Vpc at 77°F(25°C).
- Self discharge rate :< 3% per month at 77°F(25°C).
- Design life: 12-15 years at 68°F(20°C).
- Shelf life: 6 months at 68°F(20°C).
- Valve regulated system, no water addition needed.

## Application

- Telecommunications.
- Uninterruptible power supply (UPS).
- Solar energy & wind energy system.
- Other applications to provide integrated stored energy system.

## Product Specifications

## Technical Features

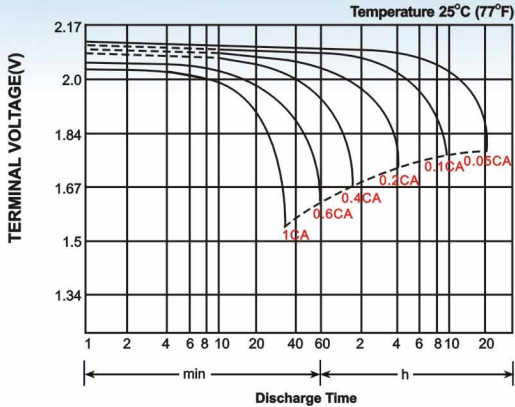
- AGM technology is applied.
- 12-15 years design life under floating application under temperature 20°C.
- Reliable seal performance, no acid spillage, recombination efficiency reach 95%.
- Initial capacity above 100%, the remaining capacity above 94% after storage for 3 months (25°C).
- Low float charge voltage design (2.25V/cell, 25°C), extremely consistent float charge voltage.
- Flexible connectors and convenient installation.
- The heavy duty lead calcium alloy grids provide an extra margin of performance and life in both cyclic and float applications and give unparalleled recovery from deep discharge.
- The container and cover can be made of flame retardant plastics which meet UL94 V0 specifications.
- The use of the special separator material provides a very efficient insulation between plates preventing inter-plate short circuits and prohibiting the shedding of active materials.

Cell Type	Nominal voltage (V)	Rated Capacity (Ah)			Dimensions (mm)				Weight (kg)
		C <sub>10</sub>	C <sub>3</sub>	C <sub>1</sub>	Length	Width	Height	Overall Height	
GFM-200	2	200	150	110	111	173	329	365	14.5
GFM-300	2	300	225	165	151	171	330	366	21
GFM-400	2	400	300	220	166	184.5	360.5	372	26.5
GFM-500	2	500	375	275	241	172	330	366	32.7
GFM-600	2	600	450	330	223	184.5	360.5	372	37.5
GFM-800	2	800	600	440	154	229	555	566	52.7
GFM-1000	2	1000	750	550	186	229	555	566	62.8
GFM-1500	2	1500	1125	825	265.5	229	555	566	93
GFM-2000	2	2000	1500	1100	349	233	555	566	122
GFM-3000	2	3000	2250	1650	496	363	361.7	383.5	175

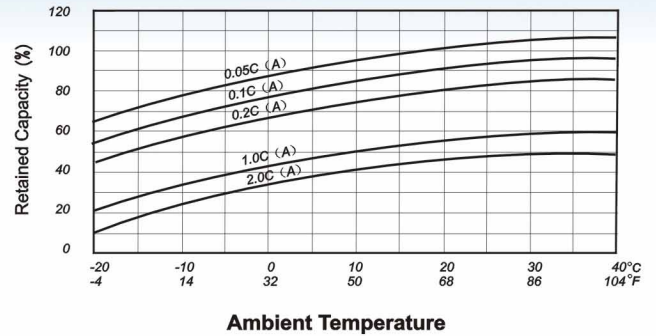
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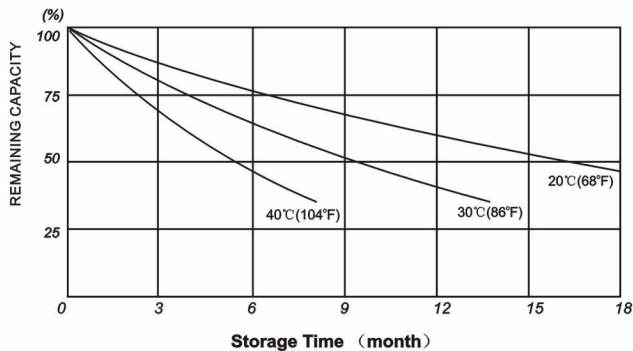
## DISCHARGE CHARACTERISTIC CURVES AT 25 °C (77 °F)



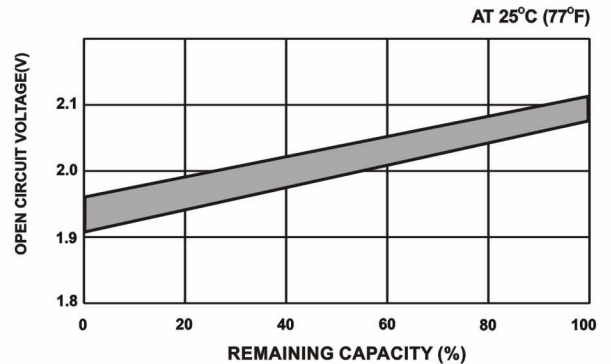
## TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



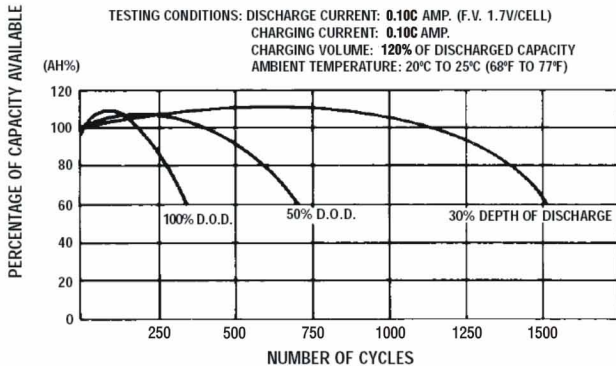
## SELF DISCHARGE CHARACTERISTICS



## OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



## CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



## FLOAT SERVICE LIFE

