

# GFM Series

## VRLA Battery



### Main Applications

- ▶ Back-up power for communication and signal system
- ▶ Back-up power for electric power system & nuclear power station
- ▶ Solar and wind power generation energy storage system
- ▶ Back-up power for military & navigation
- ▶ Back-up power for UPS & emergency lighting

### Benefits

- ▶ 15 years designed life
- ▶ Adopt the TLS patent technology with reliable sealing
- ▶ Unique design for monomer structure, complete range of models with wide choice
- ▶ Mature product technology and stable operation

### Technical Features

- ▶ The plate is with the structure of big grid and block, and is made of special alloy through special process of quadric basic lead sulfate, which improves specific energy of the battery and prolongs the cycle service life
- ▶ Positive grid is made of special multi alloy, which overcomes the shortcomings of early capacity loss. It has long service life under both float charge and cycle utilization
- ▶ Add special additives to the positive and negative plates, improve the utilization of active material and charging acceptability
- ▶ High-purity electrolyte and special additives
- ▶ Unique assembled maze seal structure of terminal (patented technology) ensures the safety and reliability of seal



SHOTO GFM series VRLA battery is the latest product developed by Shuangdeng through modern advanced technologies. Its performance parameters have reached domestic advanced level and it enjoys good reputation in China. This product can be broadly utilized as backup power supply for communication and signal systems such as telecommunication, China Mobile, China Unicom, railway and vessels etc., as the energy storage system of solar and wind power generation, and as the backup power supply of UPS and emergency illumination.

*Passion for Storage  
and Green Energy*

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### Specification



	GFM-200	GFM-300	GFM-400	GFM-500	GFM-600	GFM-800
Nominal Voltage(V)	2	2	2	2	2	2
Length(mm)	90	124	158	191	225	303
Width(mm)	181	181	181	181	181	181
Height of Monobloc (mm)	346	346	346	346	346	346
Total Height(mm)	365	365	365	365	365	365
10hr Capacity (Ah, 25°C)	200	300	400	500	600	800
Terminal	M8	M8	M8	M8	M8	M8
Terminal Torque(Nm)	15 ~ 17	15~17	15~17	15~17	15~17	15~17
Internal Resistance (mΩ)	0.90	0.60	0.51	0.41	0.39	0.38
Short Circuit Current(A)	2460	2950	4380	4810	5300	8660
Weight(kg)	12.3	17.4	22.6	27.8	32.5	44.8



	GFM-1000	GFM-1500	GFM-2000	GFM-3000
Nominal Voltage(V)	2	2	2	2
Length(mm)	370	551	385	568
Width(mm)	181	181	363	363
Height of Monobloc (mm)	346	346	369	369
Total Height(mm)	365	365	388	388
10hr Capacity (Ah, 25°C)	1000	1500	2000	3000
Terminal	M8	M8	M8	M8
Terminal Torque(Nm)	15 ~ 17	15~17	15 ~ 17	15 ~ 17
Internal Resistance (mΩ)	0.30	0.29	0.18	0.17
Short Circuit Current(A)	10010	12000	18520	28000
Weight(kg)	55.0	85.5	112.5	170.0