HUAFU 华富电池 HUAFU BATTERY

GFMH HIGH TEMPERATURE BATTERY
Energy Storage Application
Long-Life | High temperature-tolerant

6-GFMH-200 @10hr

Designed for high temperature operation environment, GFMH series High Temperature Battery (HTB) use series patented technology to promote the high temperature resistant performance and cycle life of the battery. Plates with special formula has good corrosion resistance, long life guaranteed; advanced electrolyte technology of independent intellectual property rights, less risk of water loss at high temperature, it is of high safety. It's the best choice for good performance of reliable, safe and long life battery in high temperature area for off-grid hybrid applications and telecom.

SPECIFICATION

Nominal Voltage	12V (6 cells)
Nominal Capacity	
10-Hr Rate to 10.8V @ 25°C	200Ah
10-Hr Rate to 10.8V @ 35°C	206Ah
Approximate Net Weight	60.5Kgs (133.3 lbs)(±2%)
Max. Charging Current	50A
Cycle Use Charging	14.1V @35°C(95°F)
Float Use Charging	13.5V @35°C(95°F)
Operating Temperature Range	-35°C to 65°C(-31°F~149°F)
Advice operating temperature	15°C~35°C(59°F~95°F)
Self Discharge	
1 month	97%
3 month	91%
6 month	83%

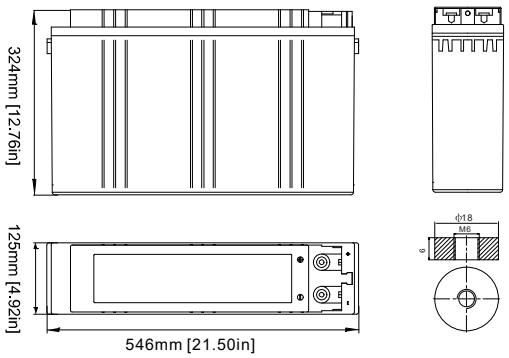
HUAFU GFMH battery can be stored up to 6 months at 35°C(95°F) and then a freshening charge is required. If the storage temperature higher than 35°C(95°F), a freshening recharge will be required sooner.

Case and cover (Reddish orange)	High Temp A.B.S. UL94-V0 (Optional)
Design Life time	15 years

FEATURE

- Using non-Cadmium rare earth alloy, improve the feature of good corrosion resistance, high temperature resistance performance.
- High temperature-tolerant: the max tolerant temperature attains to 80°C
- Best performance for continuous operation up to 35°C
- Extend service life under high temperature
- Secure operation under high temperature up to 55°C
- High Safety: by adopting the enhanced design of key components and advanced electrolyte, the batteries are of high safety with good pressure and impact resistance, and the water-loss decreases effectively.
- Patented nanometer level fumed silica gel electrolyte

DIMENSIONS (mm/in)



BATTERY CONSTRUCTION

Positive	Negative Plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Lead dioxide Rare earth alloy Grid	Lead Rare earth alloy Grid	High Temp A.B.S	High Temp A.B.S	Rubber	Copper	Superfine AGM	Fumed silica Gel

PARENT COMPANY: HUAFU High Technology Energy Storage Co., Ltd.
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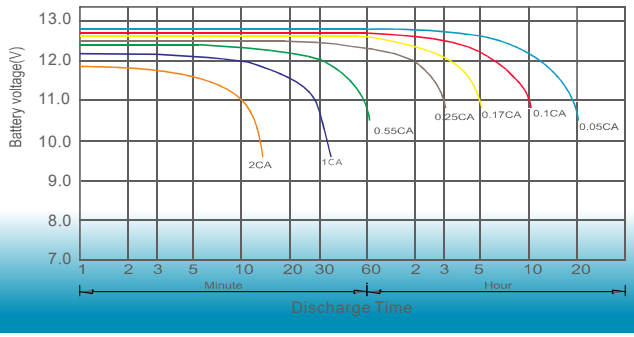
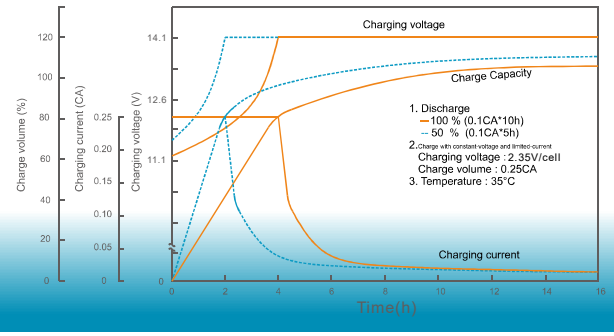
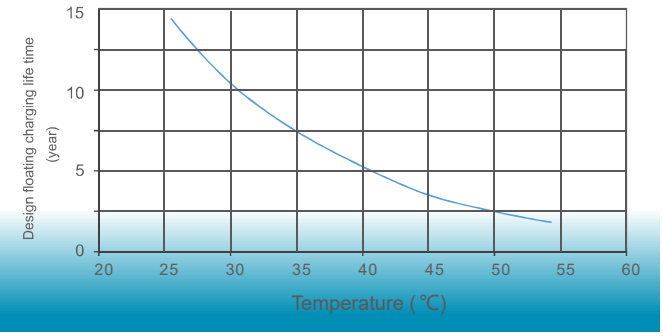
Discharging Curve (35°C)



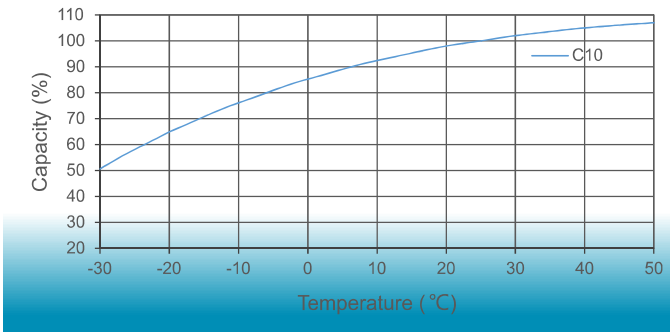
Charging Curve (35°C)



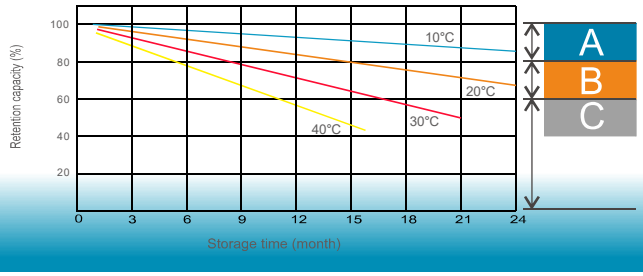
Floating charge cycle-life Vs. Temperature



Temperature Vs Battery Capacity



Self Discharge Characteristics

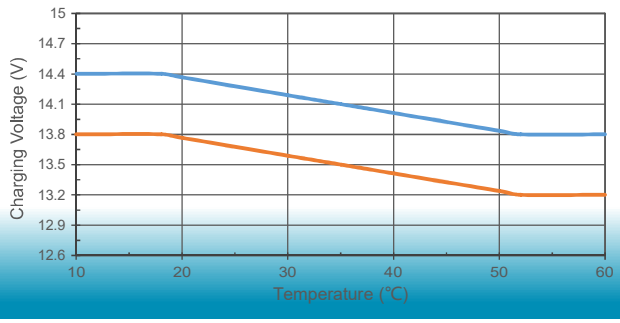


A Charging is not necessary unless 100% of capacity is required.

B Charging before use is necessary to help recover full capacity.

C Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Voltage Vs Temperature



Cycle Use: Apply constant voltage charge 14.10V at 35°C(95°F). Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Float use: Apply constant voltage charge of 13.50V at 35°C(95°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.

APPLICATION

A whole range of CYCLIC applications including but not limited to:

- Solar/wind system
- ESS
- Power Station
- Smart-grid & micro-grid sites
- Peak shifting of electrical power system

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