

Valve-regulated Lead Acid Batteries GFM series are widely utilized as standby power supply for communication and signal systems such as telecommunication, mobile station, railway and vessels etc., for the energy storage system of solar and wind power generation, and for the backup power supply of UPS and emergency illumination. Their designed life for standby usage is 15 years

Normal Voltage	2V
Capacity	2000 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 125 kg (275 lbs)
Internal Resistance (full charged)	Approx. 0.18m Ω @ 25°C (77°F)
Maximum Discharge Current	12400A (5sec)
Self Discharge @ 25°C (77°F)	No more than 3 % after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C (-40°F ~ 122°F) Charge: -20°C ~ 45°C (-4°F ~ 113°F) Storage: -20°C ~ 40°C (-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 25°C (59°F ~ 77°F)
Maximum Charging Current Limited	200A
Charging Voltage @ 25°C (77°F)	Float: 2.23 V, Temps coefficient -3 mV/°C Cycle: 2.30 V
Contain Materials	ABS
Terminal	M8 and HPb59-1
Capacity Affected by Temperature	105 % @ 40°C 85 % @ 0°C 60 % @ -20°C

**Attain certificate:**

ISO9001(03006Q10084R1M)  
ISO14001(03004E1009R0M)  
ISO18001(03004E1009R0M)  
Underwriters Laboratories  
Inc.(MH28466)  
Russia telecom

**Conforms to the standard:**

GB/T 19638.2-2005  
YD/T799-2002  
JISC8704-2:1999  
IEC60896-2,2004

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

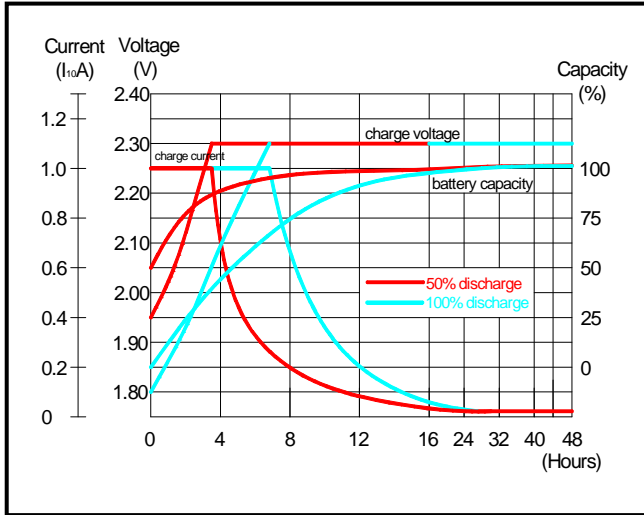
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	1421	1263	932	774	593	456	377	309	261	221	184
1.85V	1764	1398	1113	878	636	503	403	336	281	235	199
1.80V	2192	1541	1186	905	674	534	419	355	307	242	207
1.75V	2427	1787	1260	948	705	548	428	362	313	247	210
1.70V	2527	1926	1314	990	728	559	434	367	317	248	212
1.65V	2612	2034	1348	1009	743	563	438	369	319	249	213

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

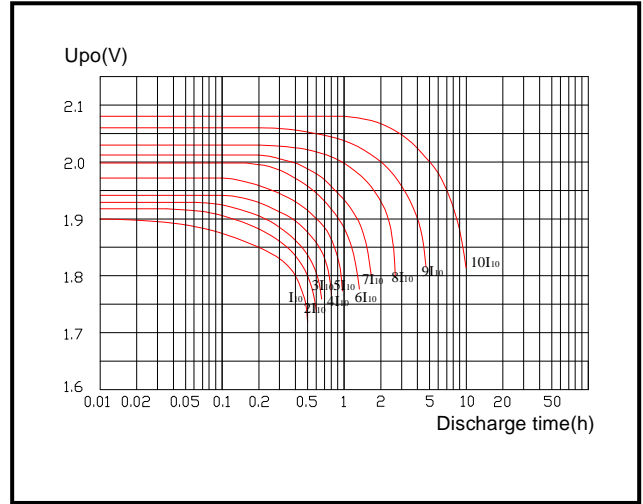
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	2730	2445	1831	1526	1175	916	761	625	528	448	374
1.85V	3320	2664	2151	1711	1244	998	807	674	565	473	402
1.80V	4059	2863	2259	1749	1308	1049	833	710	615	484	415
1.75V	4419	3285	2374	1817	1360	1072	847	721	625	493	420
1.70V	4488	3492	2439	1881	1395	1089	859	729	631	496	424
1.65V	4500	3641	2474	1900	1416	1095	864	732	635	497	425

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.

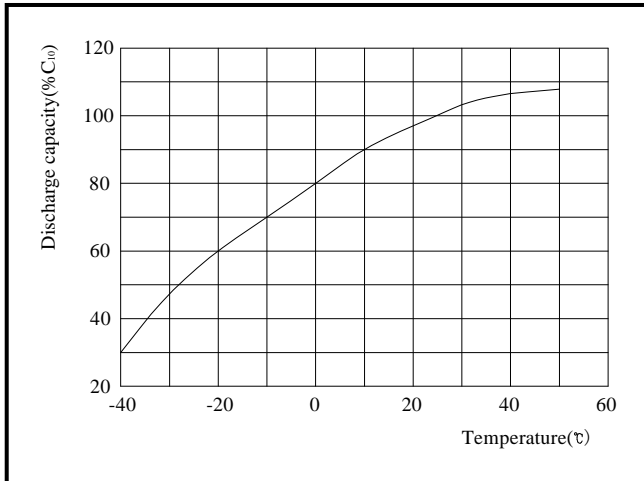
Constant Voltage Charge Characteristics



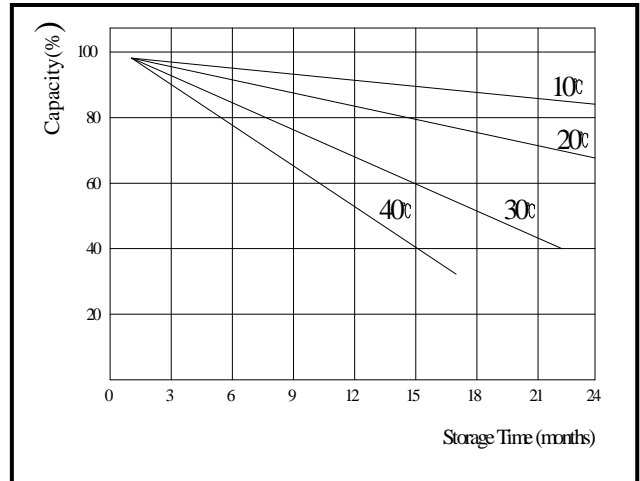
Discharge Performance at Different Discharge Rate



Capacity at Different Temperature



Curve of Storage Time and Self-discharge at Different Temperature



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