

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	3000 Ah @ 10hr to 1.80V per cell @ 25°C(77°F)
Weight	Approx.185 kg (407lbs)
Internal Resistance (full charged)	Approx. 0.17m Ω @ 25°C(77°F)
Maximum Discharge Current	18600A (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	300A
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)

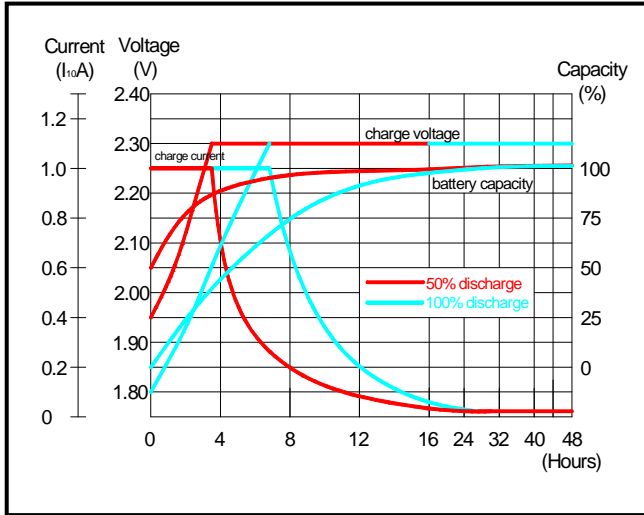
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	2132	1895	1398	1161	890	685	566	464	391	332	276
1.85V	2646	2097	1670	1317	953	754	605	504	422	352	299
1.80V	3288	2311	1780	1358	1011	800	628	533	461	363	311
1.75V	3640	2681	1889	1421	1057	822	641	543	469	370	315
1.70V	3790	2889	1970	1485	1092	838	651	550	475	373	318
1.65V	3917	3051	2022	1514	1115	845	657	553	478	374	319

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

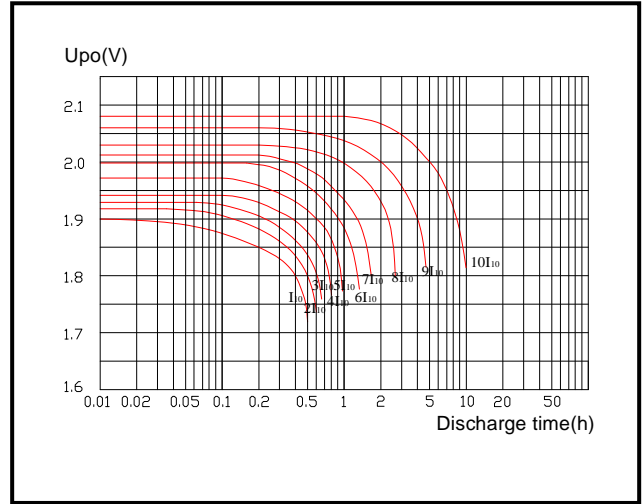
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	4096	3667	2746	2289	1763	1374	1142	937	792	672	561
1.85V	4980	3996	3226	2566	1866	1497	1210	1011	848	709	603
1.80V	6089	4294	3388	2623	1962	1574	1250	1064	923	727	623
1.75V	6629	4928	3562	2726	2040	1608	1271	1081	938	740	630
1.70V	6732	5238	3659	2821	2092	1633	1288	1093	947	744	635
1.65V	6750	5461	3711	2851	2124	1643	1296	1098	952	746	637

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.

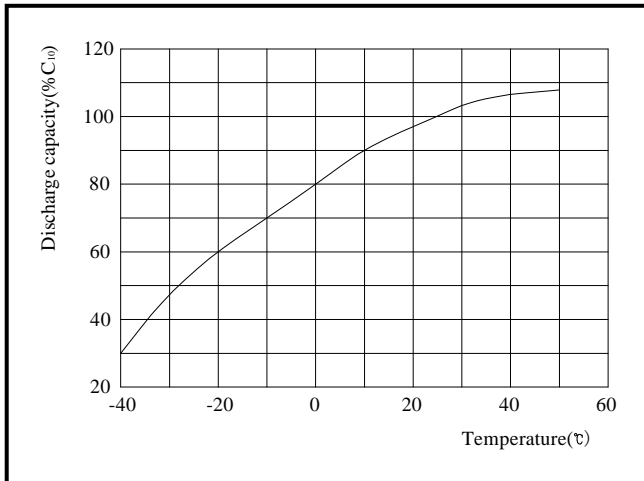
Constant Voltage Charge Characteristics



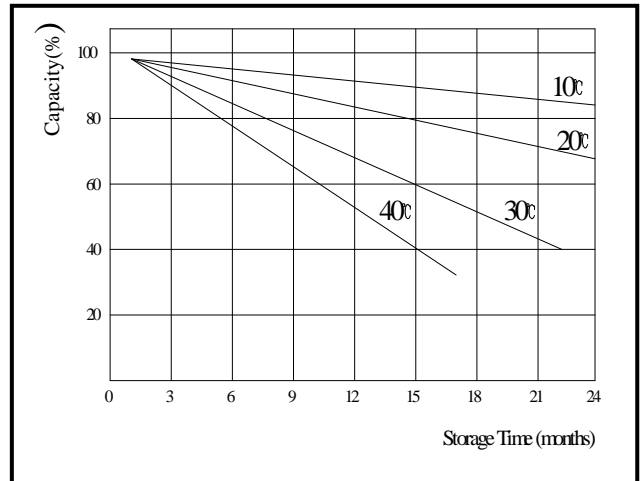
Discharge Performance at Different Discharge Rate



Capacity at Different Temperature



Curve of Storage Time and Self-discharge at Different Temperature



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