

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	1600 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 100 kg (220 lbs)
Internal Resistance (full charged)	Approx. 0.20m Ω @ 25°C (77°F)
Maximum Discharge Current	9900A (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	160A
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)

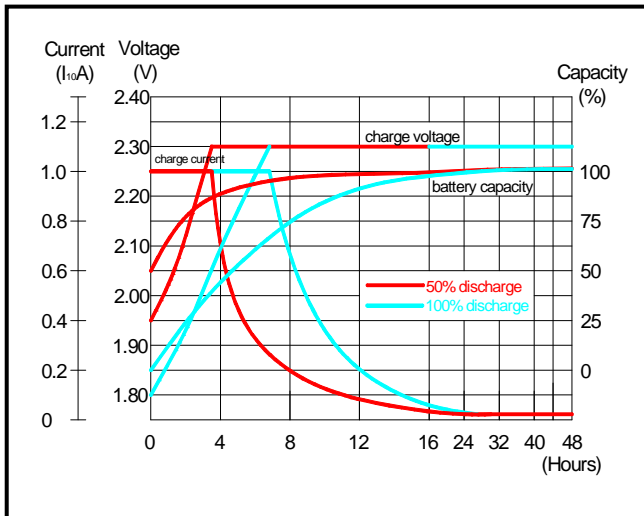
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	1137	1011	746	619	475	365	302	247	209	177	147
1.85V	1411	1119	891	703	508	402	323	269	225	188	159
1.80V	1753	1233	949	724	539	427	335	284	246	193	166
1.75V	1941	1430	1008	758	564	438	342	290	250	197	168
1.70V	2022	1541	1051	792	582	447	347	294	253	199	169
1.65V	2089	1627	1079	807	595	451	351	295	255	200	170

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

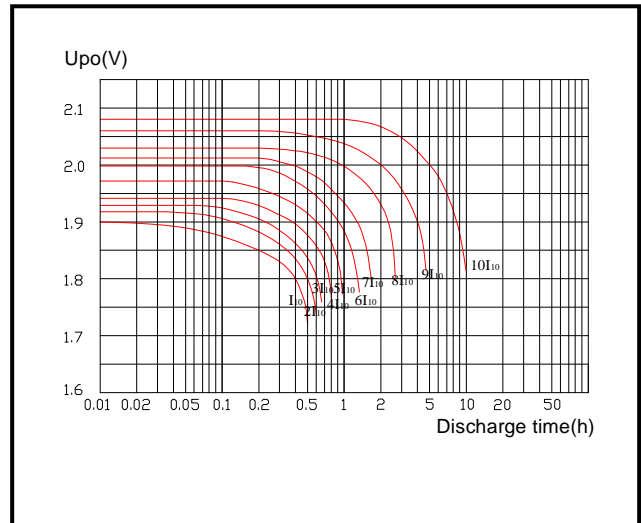
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	2184	1956	1465	1221	940	733	609	500	422	359	299
1.85V	2656	2131	1721	1369	995	798	646	539	452	378	321
1.80V	3247	2290	1807	1399	1046	840	667	568	492	388	332
1.75V	3535	2628	1899	1454	1088	858	678	576	500	394	336
1.70V	3590	2793	1951	1505	1116	871	687	583	505	397	339
1.65V	3600	2912	1979	1520	1133	876	691	586	508	398	340

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.

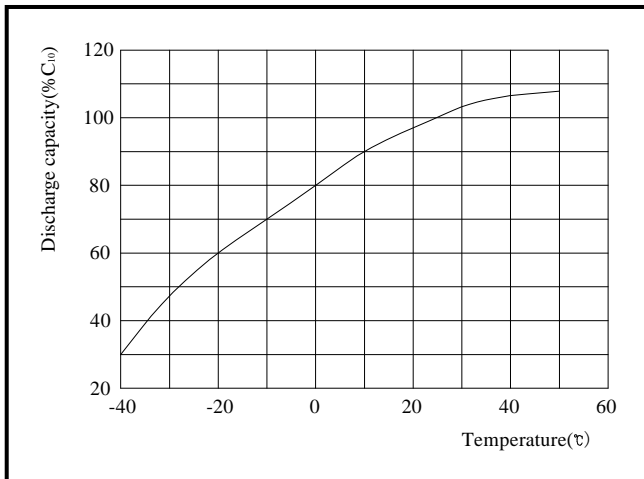
Constant Voltage Charge Characteristics



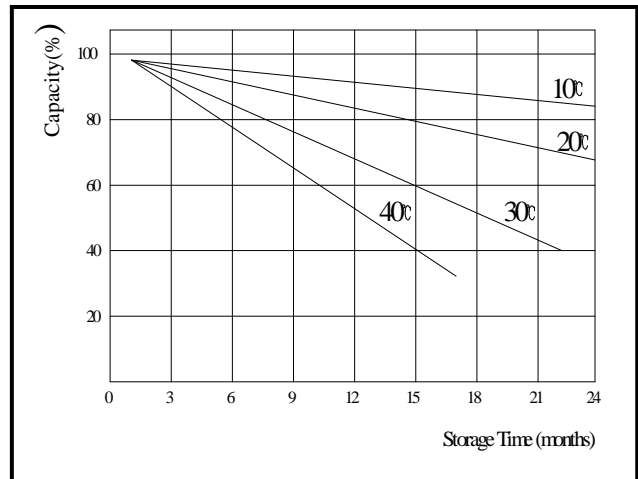
Discharge Performance at Different Discharge Rate



Capacity at Different Temperature



Curve of Storage Time and Self-discharge at Different Temperature



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