

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	600 Ah @ 10hr to 1.80V per cell @ 25°C(77°F)
Weight	Approx. 35.5 kg (78.1 lbs)
Internal Resistance (full charged)	Approx. 0.39m Ω @ 25°C(77°F)
Maximum Discharge Current	3720A (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	60A
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 standards:**

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

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

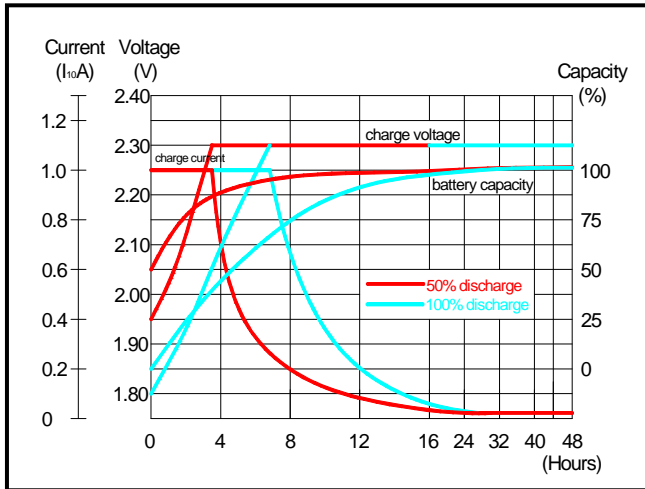
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	426	379	280	232	178	137	113	93	78	66.4	55.2
1.85V	529	419	334	263	191	151	121	101	84	70.5	59.8
1.80V	658	462	356	272	202	160	126	107	92	72.5	62.1
1.75V	728	536	378	284	211	164	128	109	94	74.0	63.0
1.70V	758	578	394	297	218	168	130	110	95	74.5	63.6
1.65V	783	610	404	303	223	169	131	111	96	74.8	63.8

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

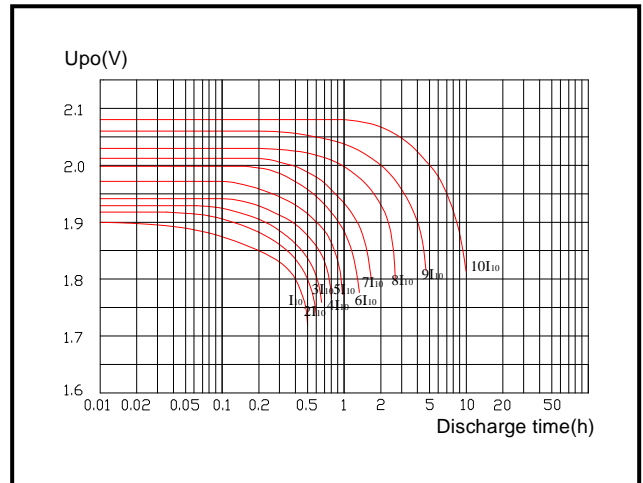
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	819	733	549	458	353	275	228	187.4	158.4	134.5	112.3
1.85V	996	799	645	513	373	299	242	202.3	169.6	141.8	120.6
1.80V	1218	859	678	525	392	315	250	212.9	184.6	145.3	124.6
1.75V	1326	986	712	545	408	322	254	216.2	187.6	147.9	126.0
1.70V	1346	1048	732	564	418	327	258	218.6	189.4	148.8	127.1
1.65V	1350	1092	742	570	425	329	259	219.6	190.4	149.2	127.4

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.

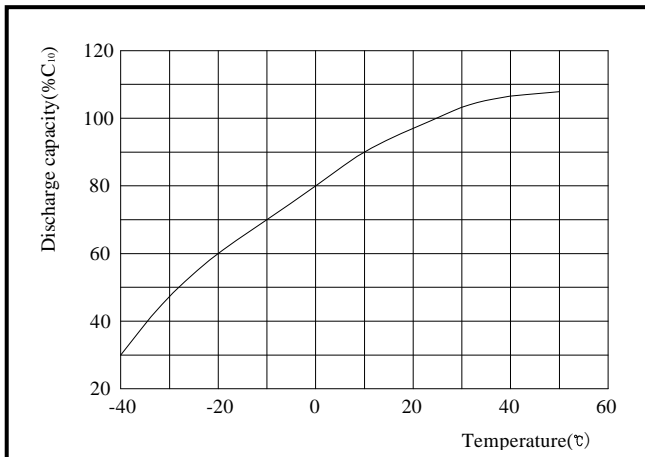
Constant Voltage Charge Characteristics



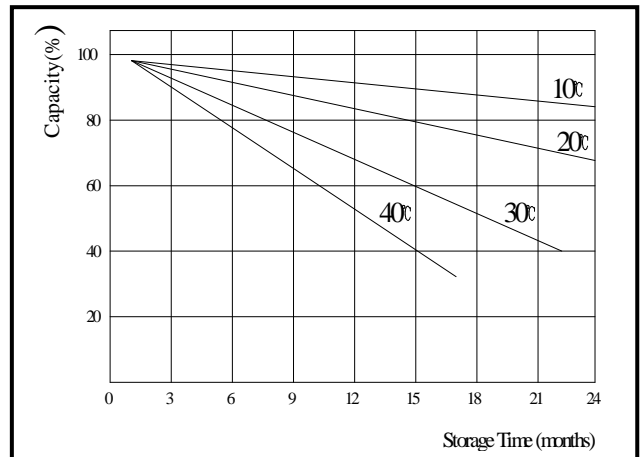
Discharge Performance at Different Discharge Rate



Capacity at Different Temperature



Curve of Storage Time and Self-discharge at Different Temperature



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