

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	500 Ah @ 10hr to 1.80V per cell @ 25°C(77°F)
Weight	Approx. 30.5 kg (67.1 lbs)
Internal Resistance (full charged)	Approx. 0.41m Ω @ 25°C(77°F)
Maximum Discharge Current	3100A (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	50A
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)

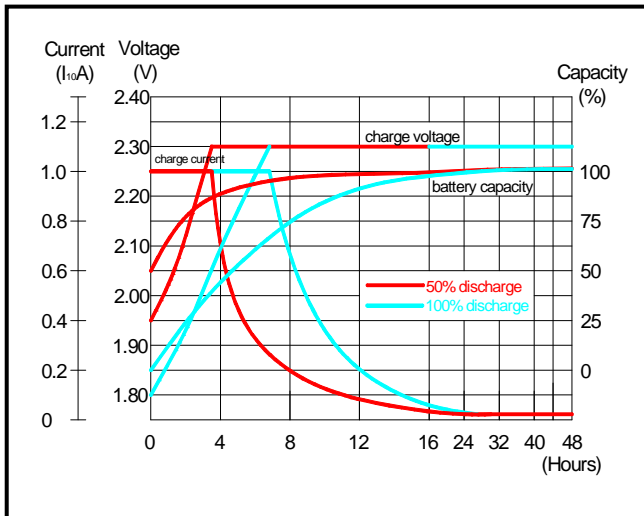
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	355	316	233	194	148	114	94	77	65	55.4	46.0
1.85V	441	350	278	220	159	126	101	84	70	58.7	49.8
1.80V	548	385	297	226	169	133	105	89	77	60.4	51.8
1.75V	607	447	315	237	176	137	107	91	78	61.6	52.5
1.70V	632	482	328	247	182	140	109	92	79	62.1	53.0
1.65V	653	508	337	252	186	141	110	92	80	62.4	53.2

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

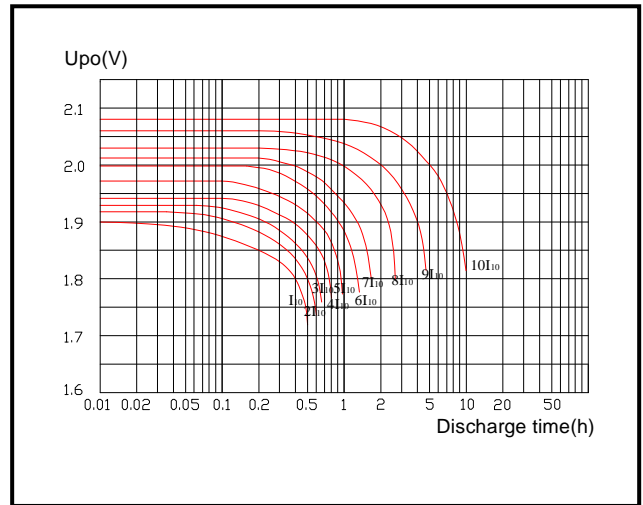
F.V/Time	15min	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	683	611	458	382	294	229.0	190.3	156.2	132.0	112.1	93.6
1.85V	830	666	538	428	311	249.5	201.7	168.5	141.3	118.1	100.5
1.80V	1015	716	565	437	327	262.3	208.3	177.4	153.8	121.1	103.8
1.75V	1105	821	594	454	340	268.1	211.8	180.1	156.3	123.3	105.0
1.70V	1122	873	610	470	349	272.1	214.7	182.2	157.9	124.0	105.9
1.65V	1125	910	618	475	354	273.8	216.0	183.0	158.7	124.3	106.2

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.

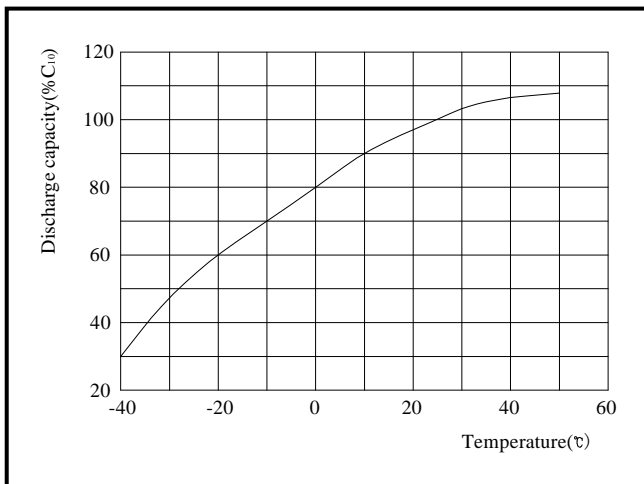
Constant Voltage Charge Characteristics



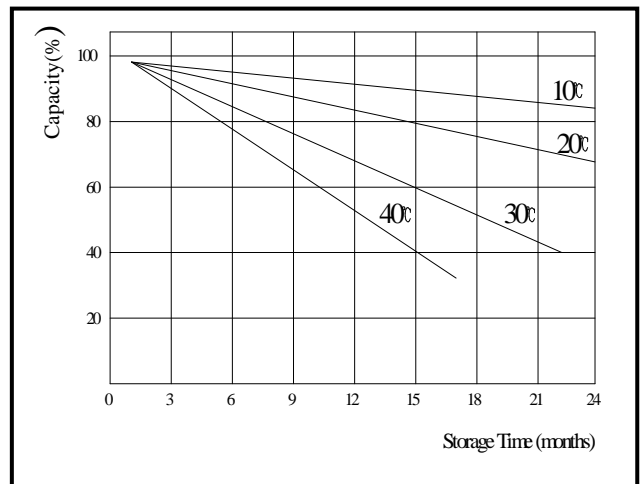
Discharge Performance at Different Discharge Rate



Capacity at Different Temperature



Curve of Storage Time and Self-discharge at Different Temperature



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