6-GFM Series

6-GFM-120

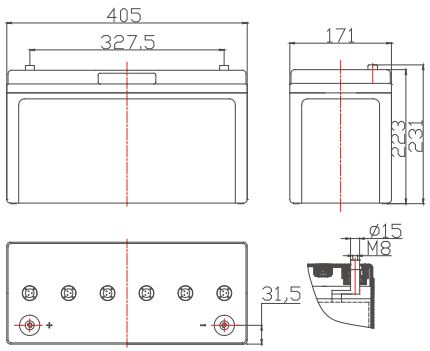
Main Applications

- Backup power for telecom and signal system
- Military field, railway system, power system
- UPS & emergency lighting system
- Fire alarm and security system

Benefits

- 10 years design life
- Safely and reliably sealed
- High energy density, low internal resistance and low discharge rate
- Excellent charging acceptability and high sealed reaction effciency

Dimensions:



Technical Parameters

Normal Voltage	12V
Capacity	120 Ah @ 10hr to 1.80V per cell @ 25℃(77℉)
Weight	Approx. 35.5kg (78.1 lbs)
Dimensions	Length: 405mm Width: 171mm Height: 223mm Total Height: 231mm
Internal Resistance (full charged)	Approx. 4.0mΩ@ 25℃(77℉)
Maximum Discharge Current	744A (5sec)
Self Discharge @ 25℃ (77℉)	Less than 8 % after 90 days storage
Operating Temperature Range	Discharge: -40℃～50℃(-40℉～122℉) Charge: -20℃～45℃(-4℉～113℉) Storage: -20℃～40℃(4℉～104℉)
Recommended Operating Temperature	15℃～25℃(59℉～77℉)
Maximum Charging Current Limited	24A
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell, Temps coefficient -3 mV/℃ Cycle: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature	105 % @ 40℃ 85 % @ 0℃ 60 % @ -20℃
Design Life @25°C(77°F)	10 years

Attain Certificate:

- ☑ ISO9001
- ☑ ISO14001
- ☑ ISO18001
- ☑ UL
- ☑ CE

Technical Features

- Adopt high strength ABS plastic, compact structure for battery container and valve, good impact resistance, and shock resistant performance
- Adopt multi-element alloy grids, low internal resistance, good corrosion resistance ability and charging acceptabili ty.
- New production process for plate, improve the utilization of active material
- High-purity electrolyte and special additives(ZL02112896.0),low self-discharge
- Multi-layer seal technology and special seal glue, no leakage and no acid mist escape, safe and reliable

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POWER SOLUTIONS

6-GFM Series

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Constant Current Discharge Characteristics Unit: A (25ºC, 77ºF)

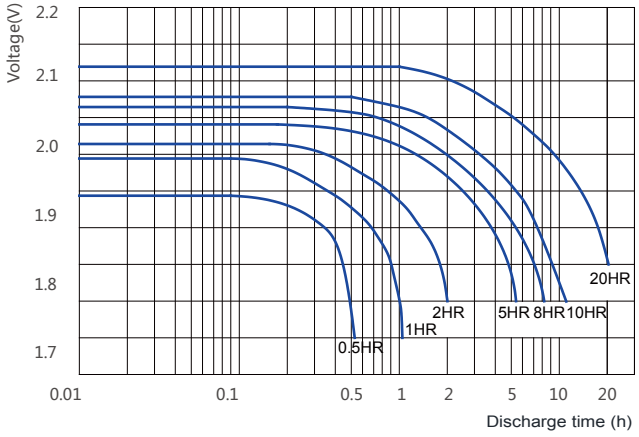
F.V/Time	15min	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.90V/cell	114.8	89.2	56.9	40.4	31.5	24.6	21.2	17.6	13.8	11. 8
1.85Vcell	138 .9	101.3	60.3	42.8	32.5	25.0	21.5	18.4	14.1	12.2
1.80V/cell	161.7	109.8	64.8	43.7	33.1	25.5	21.7	18.6	14.6	12. 5
1.75V/cell	174.4	116.0	66.2	44.2	33.5	25.8	21.9	18.8	14.9	12. 6
1.70V/cell	183.9	122.8	68.4	44.7	34.0	26.0	22.1	19.0	15.0	12. 7
1.65V/cell	192.2	127.2	70.5	45.8	34.6	26.2	22.5	19.1	15.2	12. 8

Constant Power Discharge Characteristics Unit: W/cell (25ºC, 77ºF)

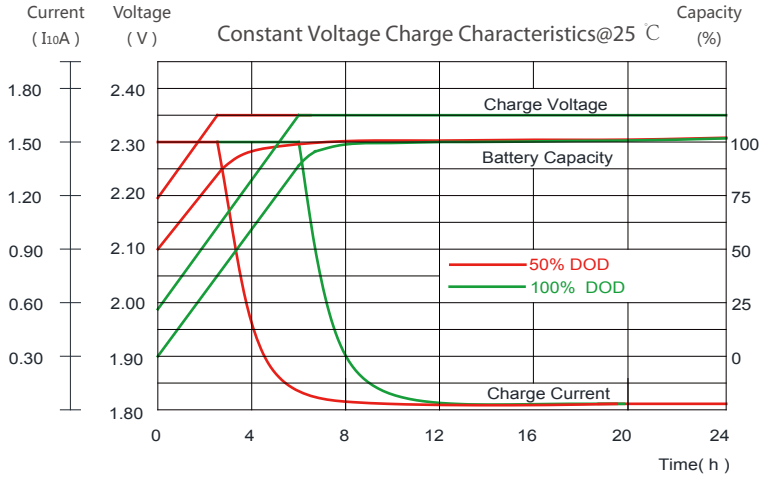
F.V/Time	15min	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.90V/cell	220.6	172.7	111.8	80.0	63.2	49.7	42.8	35.5	27.9	23.8
1.85V/cell	261.3	193.0	116.4	83.7	64.5	49.9	43.1	36.9	28.3	23.9
1.80V/cell	299.4	204.0	123.4	84.7	65. 1	50.6	43.3	37.3	29.2	24.1
1.75V/cell	317.5	213.3	124.7	85.2	65.5	51.2	43.5	37.5	29.7	24.3
1.70V/cell	326.6	222.6	127.0	85.7	66.2	51.4	43.9	37.8	30.0	24.9
1.65V/cell	331.1	227.7	129.3	87.3	67.3	51.7	44.7	38.1	30.2	25.1

Performance Curve:

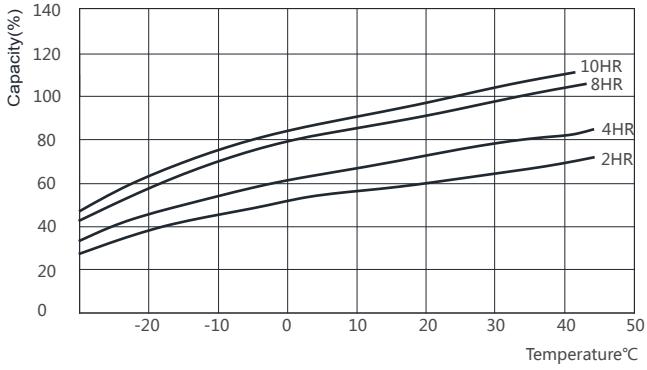
Discharge Performance at Different Discharge Rate



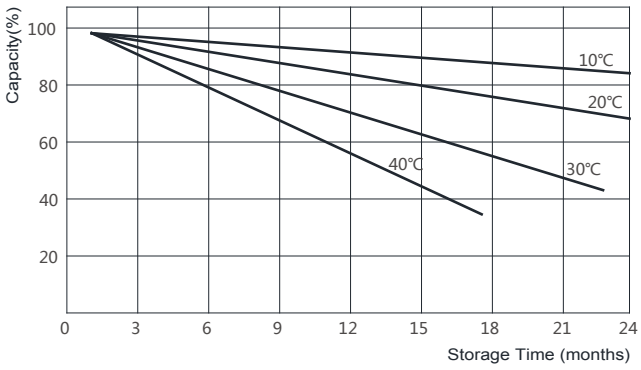
Constant Voltage Charge Characteristics@25 ℃



Capacity at Different Temperature @25 ℃



Curve of Self-discharge at Different Temperature



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