

6-GFM Series

Valve-Regulated Lead-Acid Battery

6-GFM-280



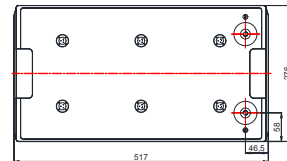
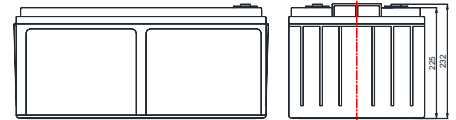
Main Applications

- ▶ 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 efficiency

Dimensions :



Technical Parameters

Nominal Voltage	12 V
Capacity	280Ah @ 10hr to 1.80V per cell @ 25°C(77°F)
Weight	Approx.80 kg (176.37 lbs)
Dimensions	Length : 517 mm Width : 276 mm Height : 225 mm Total Height : 232 mm
Internal Resistance (full charged)	Approx.2.1 mΩ@ 25°C(77°F)
Maximum Discharge Current	1736 A (5sec)
Self Discharge @25°C(77°F)	Less than 4% 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	56 A
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell, Temps coefficient -3 mV/°C Equalize: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature	105 % @ 40°C 85 % @ 0°C 60 % @ -20°C
Design Life @25°C(77°F)	10 years

Attain Certificate

- ISO 9001
- ISO 14001
- GB/T 28001

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 acceptability.
- ▶ New production process for plate, improve the utilization of active material
- ▶ High-purity electrolyte and special additives, 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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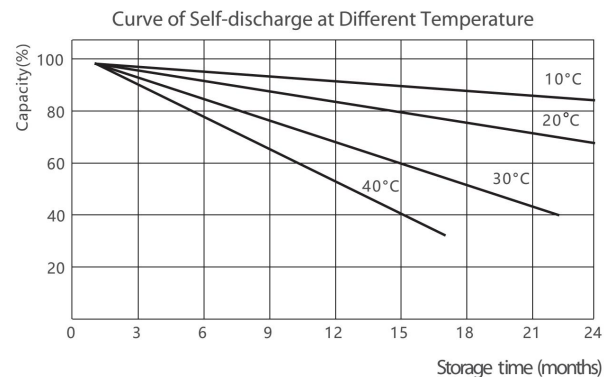
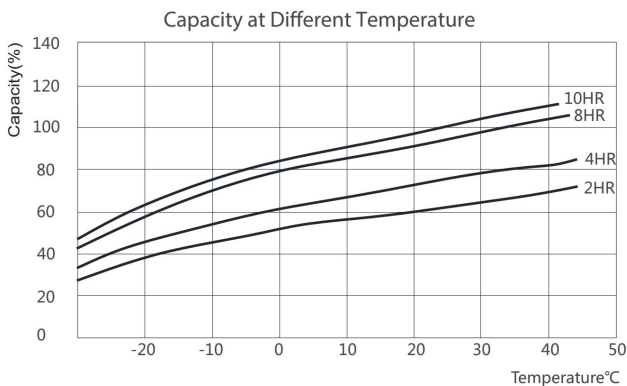
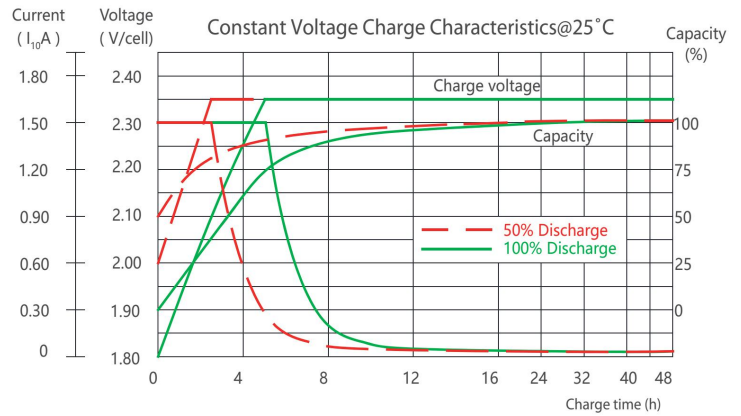
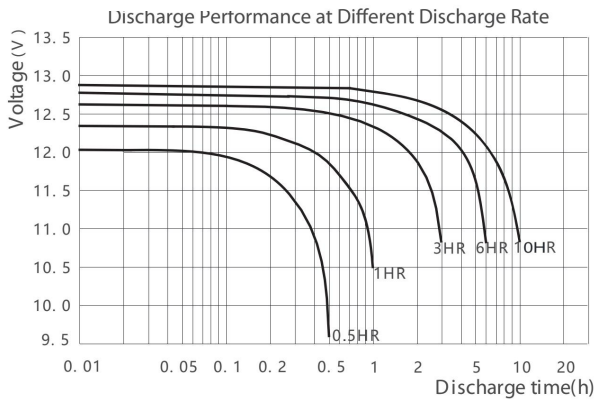
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.85V/cell	403	347	295	214	162	143	94.3	69.5	51.1	43.0	37.9	30.6	27.9
1.80V/cell	443	382	344	227	167	150	96.1	70.9	52.6	44.0	38.8	31.2	28.1
1.75V/cell	480	414	372	239	175	156	97.1	71.7	53.8	45.0	39.5	31.9	28.3
1.70V/cell	507	436	393	249	183	163	98.0	72.7	54.8	45.8	40.2	32.3	28.5
1.67V/cell	526	454	408	258	187	164	101	73.0	55.7	46.4	40.8	32.8	28.6

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

F.V/Time	5min	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.85V/cell	778	685	625	411	310	274	169	133	102	85.6	75.6	61.3	55.3
1.80V/cell	876	758	682	435	322	282	174	133	104	87.5	77.1	62.4	56.7
1.75V/cell	932	805	725	453	336	291	178	135	106	89.0	78.3	63.3	56.8
1.70V/cell	1002	858	772	471	346	301	183	139	108	90.3	79.4	64.0	57.9
1.67V/cell	1031	868	781	486	354	305	185	141	110	91.4	80.2	64.6	58.1

Performance Curve



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