

6-GFMJ Series

Gel Valve Regulated Sealed Battery

6-GFMJ-160



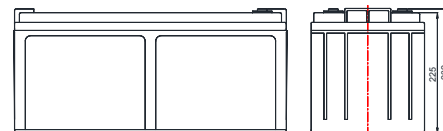
Main Applications

- ▶ Floating applications for telecom sites
- ▶ UPS & EPS & emergency lighting system
- ▶ Military field, railway system
- ▶ Power system
- ▶ Fire alarm and security system

Benefits

- ▶ Designed life of 12 years
- ▶ Excellent charging acceptability
- ▶ Lifetime maintenance free, Low annual operating cost, reduced TCO
- ▶ High security, reliability and stability

Dimensions



Technical Parameters

Nominal Voltage	12 V
Capacity	160 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	51.2 kg (112.9 lbs)
Dimensions	Length: 511 mm Width: 212 mm Height: 225 mm Total height: 232 mm
Internal Resistance (full charged)	Approx. 4.0 mΩ @ 25°C(77°F)
Short-circuit Current	930 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	32.0 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(C ₁₀)	105% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Designed Life @25°C(77°F)	12 years

Attain Certificate

- ISO 9001
- ISO 14001
- GB/T 28001

Technical Features

- ▶ The separator adopts microporous PVC-SiO₂ separator for colloidal battery, which has large porosity, small impedance
- ▶ Special gel electrolyte without flowing to avoid acid stratification and can prolong service life
- ▶ Excellent charging and discharging ability in low current
- ▶ High-purity electrolyte and special additives, low self-discharge

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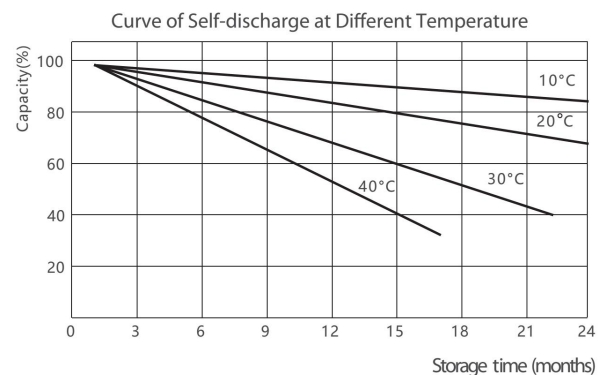
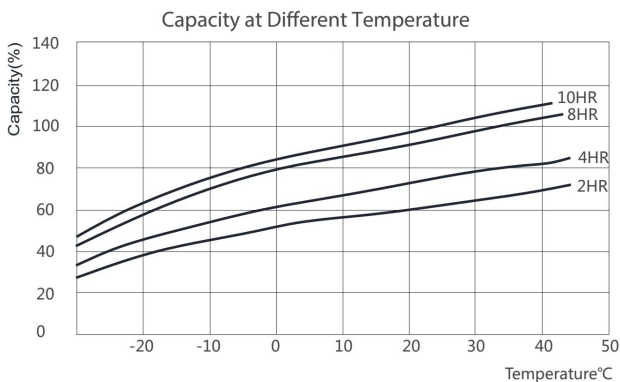
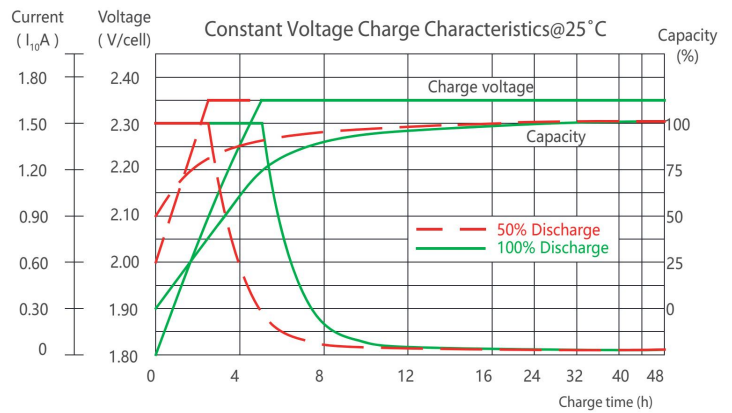
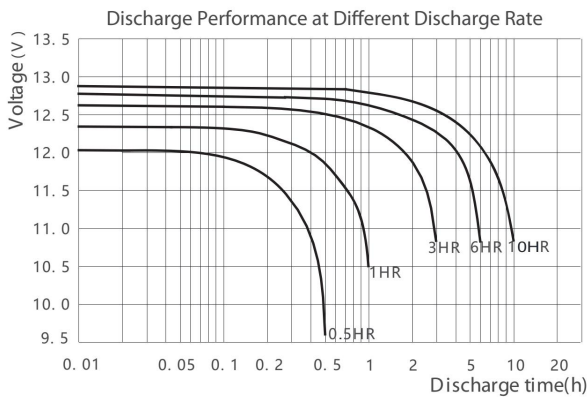
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	127	82.9	51.5	38.7	30.8	25.9	22.8	18.4	15.7	8.24
1.80V/cell	135	85.3	53.5	40.1	31.7	26.6	23.5	18.8	16.0	8.41
1.75V/cell	142	88.4	55.1	41.0	32.4	27.2	23.9	19.2	16.2	8.53
1.70V/cell	147	91.1	56.5	41.9	33.1	27.7	24.2	19.5	16.4	8.63
1.67V/cell	152	93.4	57.7	42.6	33.7	28.0	24.5	19.7	16.5	8.72
1.60V/cell	158	95.4	58.7	43.2	34.1	28.3	24.8	20.0	16.6	8.78

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

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	244	159	101	76.5	61.3	51.6	45.6	37.1	31.5	16.5
1.80V/cell	257	164	105	79.0	62.8	52.7	46.6	37.7	32.0	16.8
1.75V/cell	269	170	108	80.5	64.1	53.7	47.4	38.2	32.3	16.9
1.70V/cell	278	174	111	82.0	65.2	54.4	47.9	38.6	32.5	17.2
1.67V/cell	287	178	113	83.3	66.0	55.2	48.4	38.9	32.8	17.3
1.60V/cell	295	181	114	84.1	66.6	55.6	48.8	39.3	32.9	17.4

Performance Curve



*Declaration:

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.

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