

6-GFMJ Series

Gel Valve Regulated Sealed Battery

6-GFMJ-150



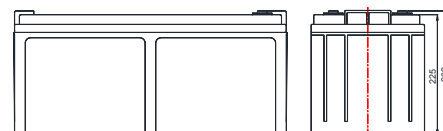
Main Applications

- ▶ 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	150 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	56.0 kg (123.4 lbs)
Dimensions	Length: 511 mm Width: 212 mm Height: 225 mm Total height: 232 mm
Internal Resistance (full charged)	Approx. 3.6 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	30.0 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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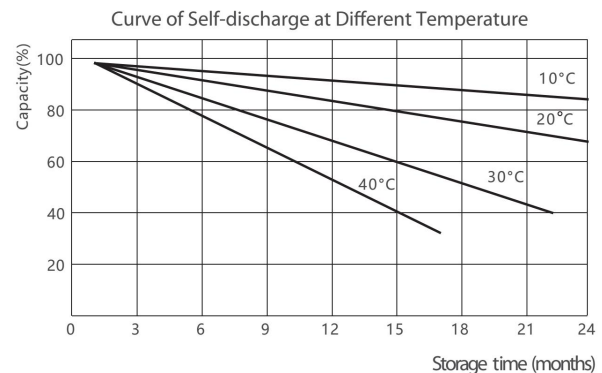
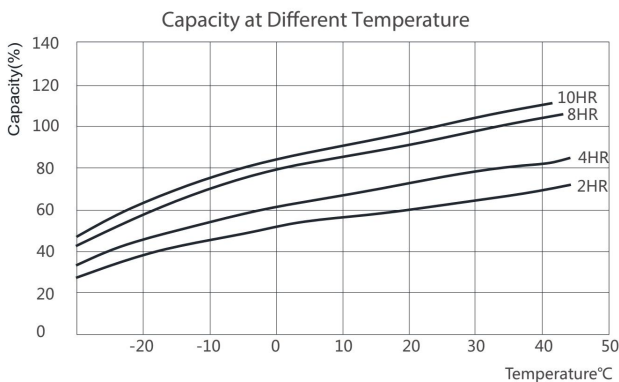
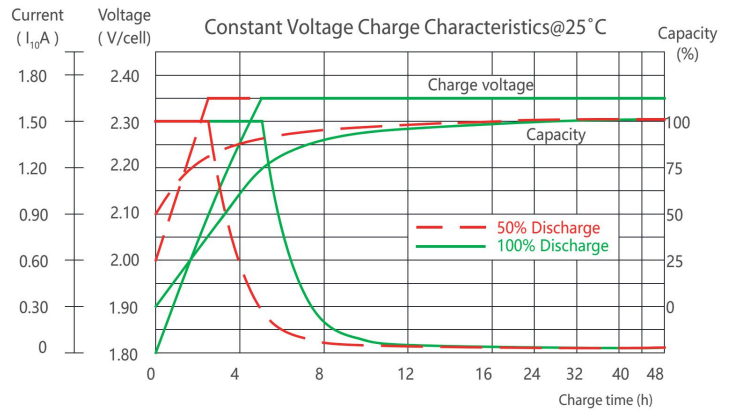
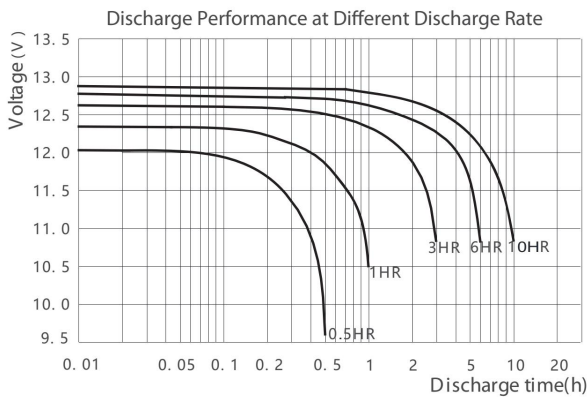
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	125	81.6	48.9	36.5	29.3	24.6	21.7	17.5	14.9	7.83
1.80V/cell	133	84.0	50.8	37.8	30.1	25.3	22.3	17.9	15.2	7.99
1.75V/cell	140	87.0	52.3	38.7	30.8	25.8	22.7	18.2	15.4	8.10
1.70V/cell	145	89.7	53.7	39.5	31.4	26.3	23.0	18.5	15.6	8.20
1.67V/cell	150	91.9	54.8	40.2	32.0	26.6	23.3	18.7	15.7	8.28
1.60V/cell	156	93.9	55.8	40.8	32.4	26.9	23.6	19.0	15.8	8.34

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	240	157	96.4	72.2	58.2	49.0	43.3	35.2	29.9	15.7
1.80V/cell	253	161	99.8	74.6	59.7	50.1	44.3	35.8	30.4	16.0
1.75V/cell	265	167	103	76.0	60.9	51.0	45.0	36.3	30.7	16.1
1.70V/cell	274	171	105	77.4	61.9	51.7	45.5	36.7	30.9	16.3
1.67V/cell	283	175	107	78.6	62.7	52.4	46.0	37.0	31.2	16.4
1.60V/cell	290	178	108	79.4	63.3	52.8	46.4	37.3	31.3	16.5

Performance Curve



*Declaration:

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