

6-GFMJ Series

Gel Valve Regulated Sealed Battery

6-GFMJ-65



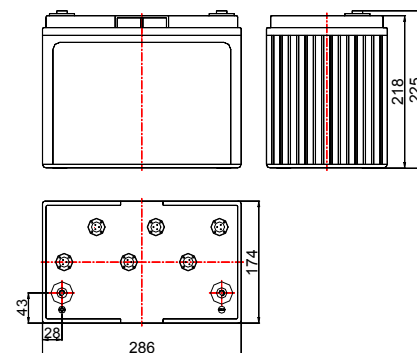
Main Applications

- ▶ 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	65 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	25.0 kg (55.1 lbs)
Dimensions	Length: 286 mm Width: 174 mm Height: 218 mm Total height: 225 mm
Internal Resistance (full charged)	Approx. 6.7 mΩ @ 25°C(77°F)
Short-circuit Current	403 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	13.0 A
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell, Temps coefficient -3 mV/°C Equalize: 2.35 V/cell
Terminal	M6
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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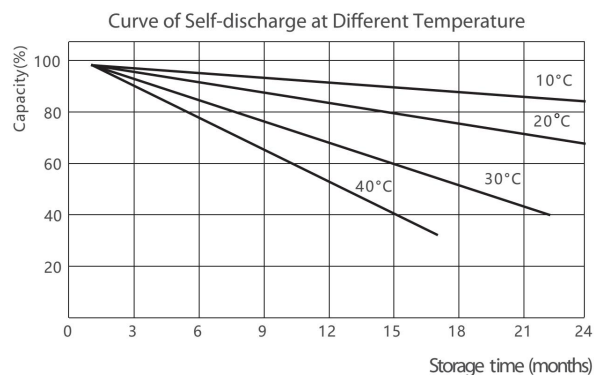
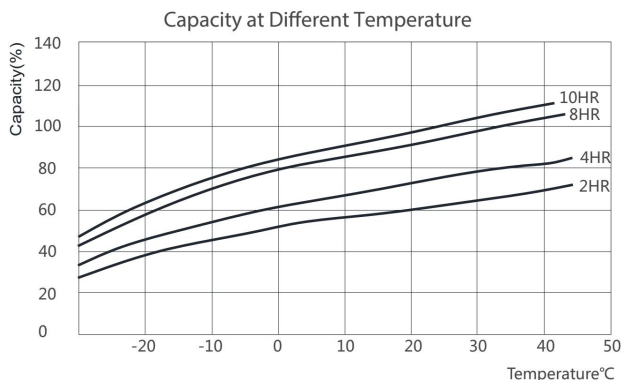
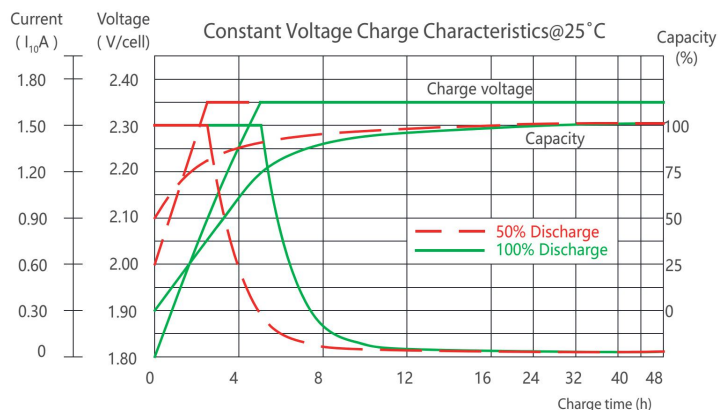
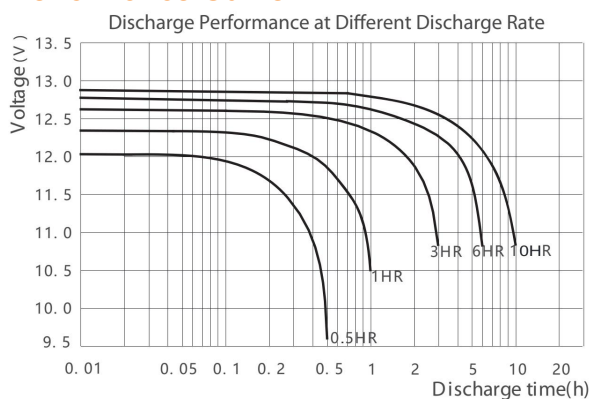
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	57.2	35.4	21.2	15.8	12.7	10.7	9.40	7.60	6.47	3.40
1.80V/cell	60.7	36.4	22.0	16.4	13.1	11.0	9.64	7.77	6.60	3.47
1.75V/cell	63.7	37.7	22.7	16.7	13.4	11.2	9.82	7.91	6.68	3.51
1.70V/cell	66.3	38.8	23.3	17.1	13.6	11.4	9.98	8.02	6.76	3.55
1.67V/cell	68.6	39.8	23.8	17.4	13.8	11.6	10.1	8.12	6.82	3.59
1.60V/cell	71.1	40.7	24.2	17.7	14.0	11.7	10.2	8.20	6.87	3.61

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	109	68.3	41.7	31.2	25.2	21.3	18.7	15.2	13.0	6.82
1.80V/cell	116	70.1	43.2	32.4	25.9	21.8	19.2	15.5	13.2	6.94
1.75V/cell	121	72.4	44.5	33.0	26.4	22.1	19.5	15.7	13.3	7.01
1.70V/cell	125	74.4	45.5	33.6	26.8	22.4	19.8	15.9	13.4	7.07
1.67V/cell	129	76.0	46.3	34.1	27.2	22.7	20.0	16.0	13.5	7.12
1.60V/cell	132	77.2	46.9	34.5	27.4	22.9	20.1	16.1	13.6	7.15

Performance Curve



*Declaration:

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