6-GFMJ Series

Gel Valve Regulated Sealed Battery 6-GFMJ-85





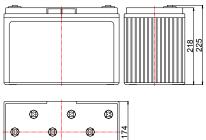
Main Applications

- ▶ Floating applications for telecom sites
- UPS &EPS & emergency lighting syste
- 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







Technical Parameters

Nominal Voltage	12 V				
Capacity	85 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)				
Weight	26.5 kg (58.4 lbs)				
Dimensions	Length: 331 mm Width: 174 mm Height: 218 mm Total height: 225 mm				
Internal Resistance (full charged)	Approx. 6.8 m Ω @ 25°C(77°F)				
Short- circuit Current	527 A(5sec)				
Self Discharge @25°C(77°F)	Less than 4% after 30 days storage				
Operating Temperature Range	Discharge: $-40^{\circ}\text{C} \sim 50^{\circ}\text{C}(-40^{\circ}\text{F} \sim 122^{\circ}\text{F})$ Charge: $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}(-4^{\circ}\text{F} \sim 113^{\circ}\text{F})$ Storage: $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}(-4^{\circ}\text{F} \sim 104^{\circ}\text{F})$				
Recommended Operating Temperature	15°C∼25°C (59°F∼77°F)				
Maximum Charging Current	17.0 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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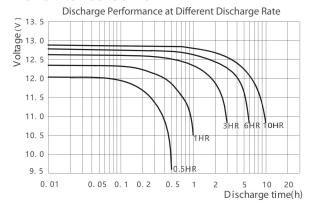
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

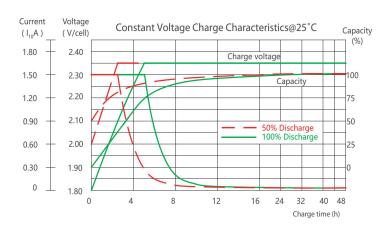
F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	74.8	46.3	27.7	20.7	16.6	13.9	12.3	9.98	8.47	4.45
1.80V/cell	79.3	47.6	28.8	21.5	17.1	14.3	12.6	10.2	8.66	4.53
1.75V/cell	83.4	49.3	29.6	21.9	17.5	14.6	12.8	10.4	8.80	4.59
1.70V/cell	86.8	50.8	30.4	22.4	17.8	14.9	13.0	10.5	8.85	4.65
1.67V/cell	89.8	52.1	31.0	22.8	18.1	15.1	13.2	10.6	8.90	4.69
1.60V/cell	92.9	53.2	31.7	23.2	18.3	15.3	13.4	10.7	8.95	4.72

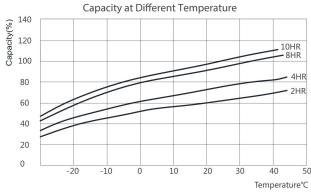
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

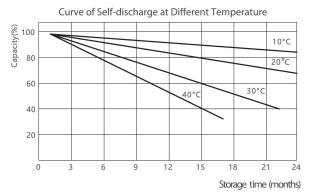
F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	143	89.4	54.6	40.9	33.0	27.8	24.5	20.0	16.9	8.89
1.80V/cell	151	91.5	56.5	42.2	33.9	28.4	25.1	20.3	17.2	9.01
1.75V/cell	158	94.7	58.2	43.0	34.5	28.9	25.4	20.6	17.4	9.08
1.70V/cell	164	97.3	59.4	43.8	35.1	29.3	25.8	20.8	17.5	9.20
1.67V/cell	168	99.4	60.5	44.6	35.6	29.7	26.1	21.0	17.6	9.28
1.60V/cell	173	101	61.3	45.1	35.9	29.9	26.3	21.2	17.7	9.34

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.