

6-XFMJ Series

Front-terminal Gel Battery

6-XFMJ-150



shoto®



Main Applications

- Floating applications for telecom sites
- Solar & wind energy storage system
- Off-grid & Bad-grid hybrid sites
- UPS and emergency illumination

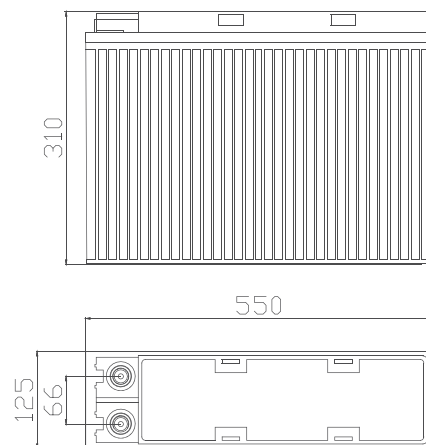
Benefits

- Long life design for float application, 15years
- Excellent charge acceptability and deep cycling performance
- Suitable for 19 inch/23 inch cabinet, reduce the occupied area
- High performance/price ratio and low annual operating cost

Technical Parameters

| | |
|--|--|
| Nominal Voltage | 12 V |
| Capacity | 150 Ah @ 10hr to 1.80V per cell @ 25°C (77°F) |
| Weight | 56.0 kg(123.5 lbs) |
| Dimensions | Length: 550 mm (21.65 in) Width: 125 mm (4.92 in) Height: 310 mm (12.20 in) |
| Reference internal resistance (fully charged) | 4.7 mΩ@25°C(HIOKI BT3554 Test) |
| Short- circuit Current | 2553 A |
| Self Discharge @25°C(77°F) | Less than 4% after 28 days storage |
| Operating Temperature Range | Discharge: -20°C ~ 50°C(-4°F ~ 122°F) Charge: -20°C ~ 50°C(-4°F ~ 122°F) Storage: 5°C ~ 40°C(41°F ~ 104°F) |
| Recommended Operating Temperature | 15°C ~ 25°C (59°F ~ 77°F) |
| Recommended Charging Current | 22.5 A |
| Charging Voltage @25°C(77°F) | Float: 2.25 V/cell 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) |
| Design Life @25°C(77°F) | 15 years |

Dimensions



Certification

- ☑ ISO 9001
- ☑ ISO 14001
- ☑ GB/T 28001
- ☑ UL
- ☑ CE

Technical Features

- Special gel electrolyte without flowing to avoid acid stratification and can prolong service life
- Front terminal connections for fast and easy installation and maintenance
- Excellent discharging ability in low current
- High stability and security, millions of batteries are in service

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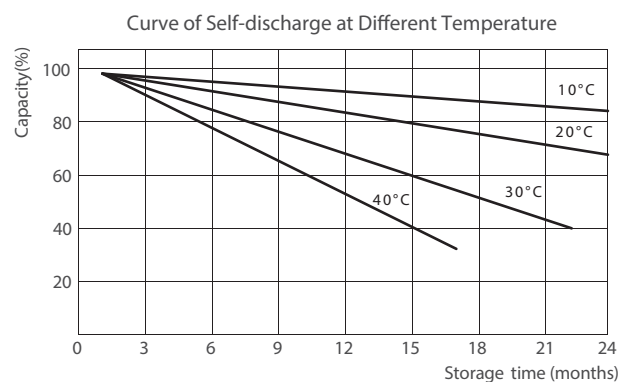
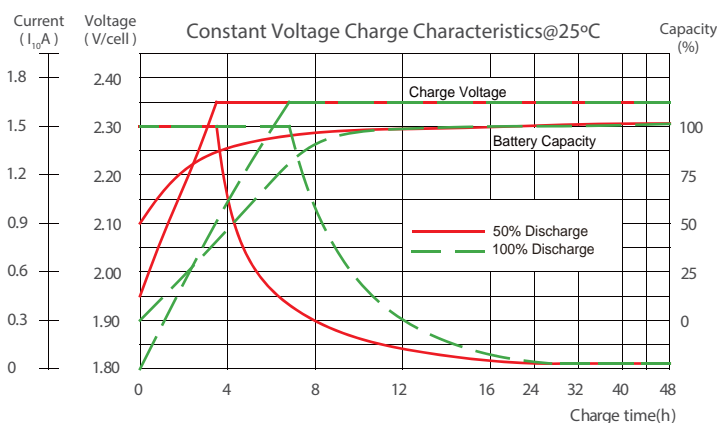
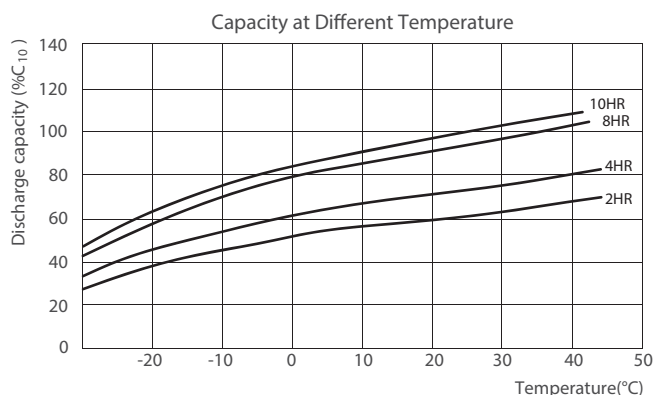
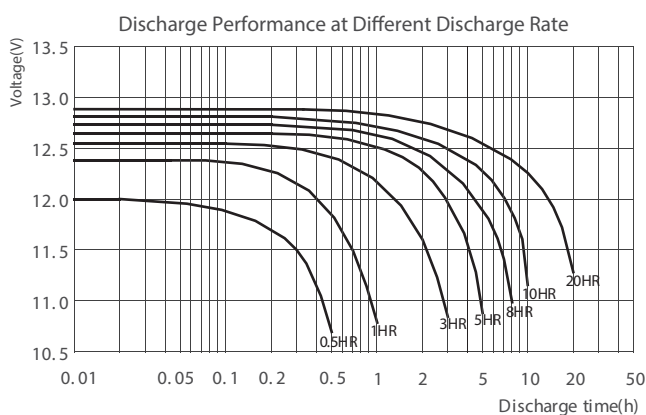
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 1 hr | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8 hr | 10 hr | 20hr |
|----------|------|-------|------|------|------|------|------|-------|------|
| 1.90V | 72 | 51 | 45 | 32.6 | 27.5 | 21.4 | 17.5 | 14.0 | 7.2 |
| 1.85V | 81 | 60 | 48.3 | 36.1 | 28.5 | 22.8 | 18.0 | 15.1 | 8.1 |
| 1.80V | 88 | 65 | 53 | 39.4 | 29.6 | 25.0 | 18.7 | 15.8 | 8.4 |
| 1.75V | 91 | 68 | 56 | 40.3 | 30.3 | 25.6 | 19.1 | 16.1 | 8.8 |

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

| F.V/Time | 1 hr | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8 hr | 10 hr | 20hr |
|----------|-------|-------|-------|------|------|------|------|-------|------|
| 1.90V | 131.5 | 98.7 | 88.2 | 62.5 | 52.8 | 43.8 | 31.2 | 30.3 | 14.7 |
| 1.85V | 143.2 | 109.3 | 97.2 | 68.5 | 57.5 | 44.7 | 32.3 | 30.8 | 15.8 |
| 1.80V | 157.0 | 117.8 | 101.2 | 75.0 | 60.2 | 48.7 | 33.5 | 31.2 | 16.3 |
| 1.75V | 167.2 | 136.2 | 102.7 | 77.7 | 62.7 | 50.8 | 35.7 | 33.0 | 17.0 |

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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