

6-GFMHR

High Rate Battery

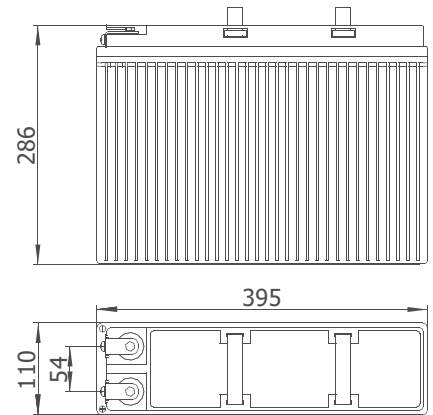
6-GFMHR-410XW



Benefits

- ▶ High rate, can be used in the standby power which less than 15min
- ▶ High consistency, security, reliability and stability
- ▶ Fast charging speed, low self-discharge rate
- ▶ Designed life is 15 years
- ▶ Good anti-high current performance
- ▶ Good anti-over-discharge performance
- ▶ Excellent anti-overcharge performance
- ▶ Good anti-impact performance
- ▶ Excellent anti-vibration performance

Dimensions



Technical Parameters

| | |
|--|--|
| Nominal Voltage | 12 V |
| Rated Power | 410W,15min to 1.67V/cell(25°C) |
| Weight | 33 kg (72.75 lbs) |
| Dimensions | Length: 395 mm (15.55 in) Width: 110 mm (4.33 in) Height: 286 mm (11.26 in) |
| Internal Resistance (full charged) | 3.4 mΩ |
| Short- circuit Current | 1755 A |
| Self Discharge @25°C(77°F) | Less than 8% after 90 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) |
| Recommended Charging Current | 15 A |
| Charging Voltage @25°C(77°F) | Float: 2.23 V/cell 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) |
| Design Life @25°C(77°F) | 15 years |

Certification

- ☑ ISO 9001: 2008
- ☑ ISO 14001: 2004
- ☑ GB/T 28001- 2011

Technical Features

- ▶ Double-sided smear, cast welding and other processes strengthen the process control and improve battery consistency
- ▶ High-strength ABS material and patented sealing technology ensure the normal use of the battery without leakage, expansion and rupture
- ▶ Corrosion-resistant alloy and stamping process greatly extend the battery life

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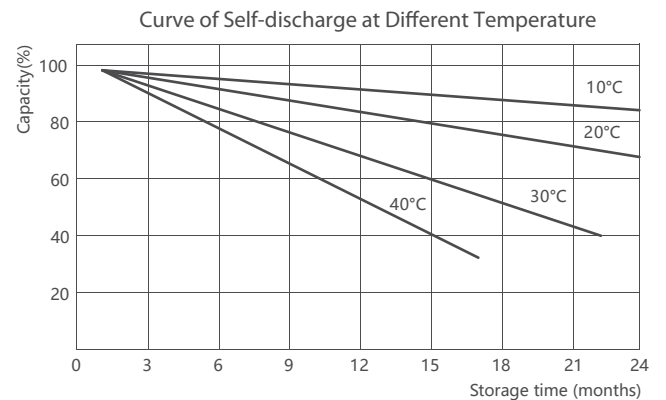
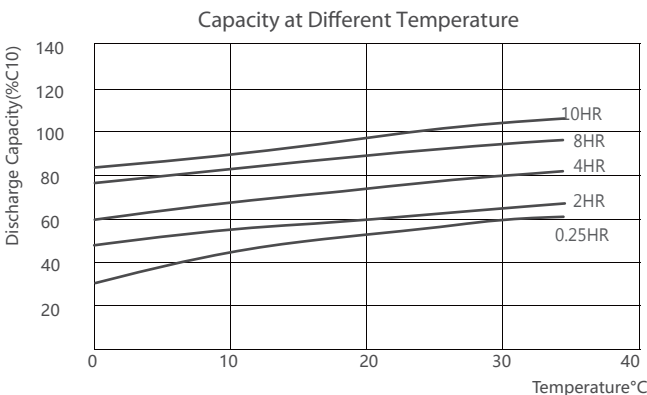
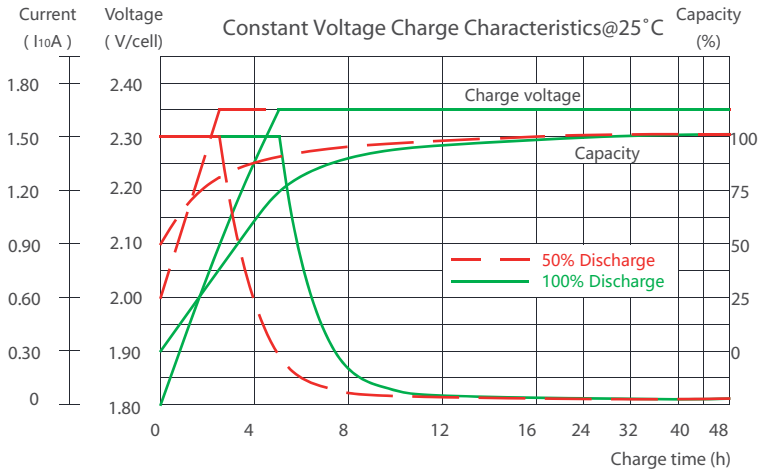
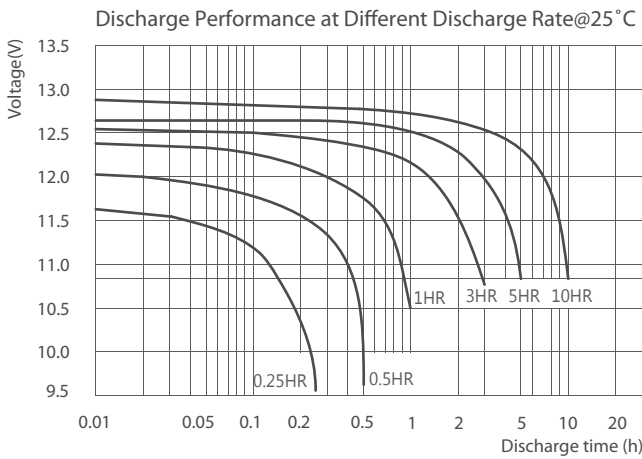
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 25min | 30min | 1hr | 1.5hr | 2hr | 3hr | 6hr | 10hr |
|----------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|
| 1.60V | 440 | 306 | 235 | 190 | 152 | 142 | 79.8 | 56.0 | 44.0 | 30.0 | 16.2 | 10.5 |
| 1.67V | 395 | 283 | 222 | 181 | 145 | 134 | 76.1 | 54.0 | 42.0 | 29.0 | 16.1 | 10.4 |
| 1.70V | 373 | 272 | 214 | 176 | 141 | 130 | 73.2 | 50.0 | 39.0 | 28.5 | 15.9 | 10.3 |
| 1.75V | 334 | 252 | 202 | 166 | 138 | 122 | 70.2 | 49.2 | 38.0 | 28.2 | 15.8 | 10.2 |
| 1.80V | 293 | 231 | 186 | 153 | 123 | 114 | 65.7 | 46.6 | 36.5 | 28.0 | 15.6 | 10.1 |
| 1.85V | 252 | 209 | 180 | 141 | 112 | 105 | 61.7 | 44.4 | 36.0 | 27.5 | 15.4 | 9.9 |

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

| F.V/Time | 5min | 10min | 15min | 20min | 25min | 30min | 1hr | 1.5hr | 2hr | 3hr | 6hr | 10hr |
|----------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 763 | 547 | 420 | 333 | 290 | 255 | 149.0 | 109.2 | 86.2 | 60.0 | 33.2 | 21.7 |
| 1.67V | 690 | 510 | 410 | 327 | 287 | 246 | 143.0 | 105.8 | 82.7 | 58.3 | 33.0 | 21.6 |
| 1.70V | 668 | 492 | 400 | 324 | 285 | 241 | 142.5 | 98.5 | 77.2 | 57.6 | 32.9 | 21.5 |
| 1.75V | 604 | 480 | 381 | 320 | 283 | 231 | 137.0 | 97.4 | 75.6 | 57.2 | 32.8 | 21.4 |
| 1.80V | 539 | 434 | 380 | 286 | 228.8 | 217 | 129.0 | 92.7 | 73.0 | 57.1 | 32.6 | 21.3 |
| 1.85V | 479 | 402 | 360 | 270 | 216 | 203 | 122.0 | 88.8 | 72.4 | 56.4 | 32.3 | 21.0 |

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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