

6-GFMHR

High Rate Battery

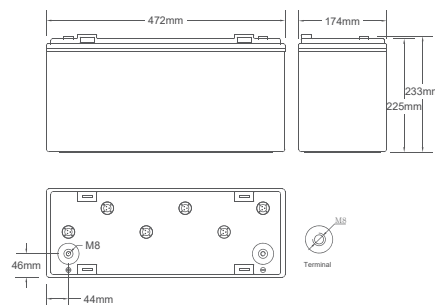
6-GFMHR-630W



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 | 630W, 15min to 1.67V/cell(25°C) |
| Weight | 46 kg(101.41 lbs) |
| Dimensions | Length: 472 mm (18.58 in) Width: 174 mm (6.85 in) Height: 225 mm (8.86 in) Total height: 233 mm (9.17 in) |
| Internal Resistance (full charged) | 2.2 mΩ |
| Short- circuit Current | 3400 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 | 22.5 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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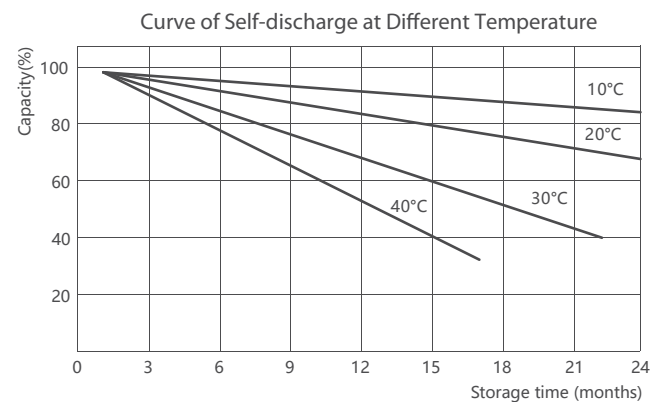
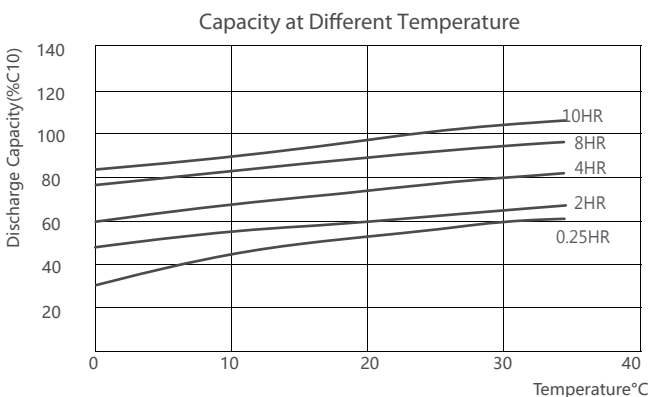
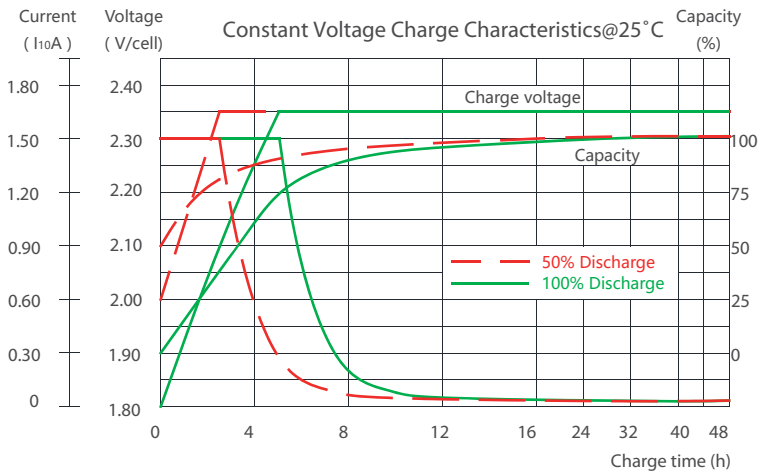
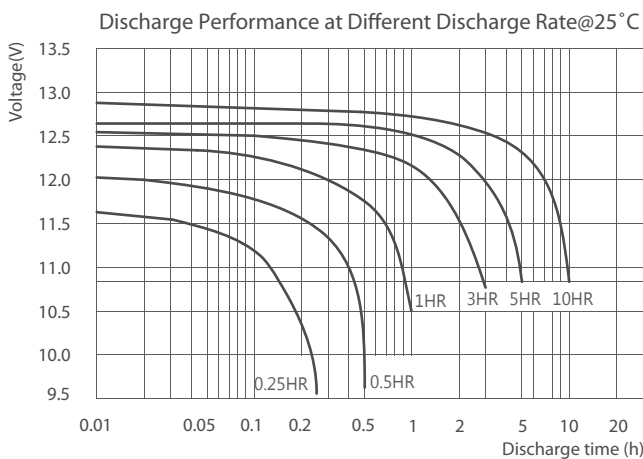
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 25min | 30min | 1hr | 1.5hr | 2hr | 3hr | 6hr | 10hr |
|----------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|
| 1.60V | 501 | 396 | 300 | 245 | 217 | 183 | 97.6 | 68.5 | 58.6 | 44.0 | 24.3 | 15.6 |
| 1.67V | 458 | 363 | 295 | 240 | 215 | 180 | 96.2 | 67.4 | 57.8 | 43.6 | 24.1 | 15.5 |
| 1.70V | 434 | 355 | 275 | 235 | 208 | 175 | 95.4 | 66.7 | 56.4 | 42.7 | 23.9 | 15.4 |
| 1.75V | 396 | 340 | 270 | 230 | 198 | 168 | 92.9 | 65.8 | 55.7 | 42.1 | 23.7 | 15.1 |
| 1.80V | 355 | 270 | 238 | 198 | 161 | 155 | 89.0 | 63.2 | 55.1 | 41.7 | 23.5 | 15.0 |
| 1.85V | 310 | 240 | 215 | 180 | 144 | 143 | 82.7 | 58.4 | 54.0 | 40.9 | 23.1 | 14.9 |

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 | 893 | 760 | 640 | 515 | 442 | 331 | 189.3 | 133.6 | 114.9 | 86.7 | 48.1 | 31.2 |
| 1.67V | 830 | 750 | 630 | 505 | 440 | 324 | 187.6 | 132.1 | 113.9 | 86.3 | 48.0 | 31.1 |
| 1.70V | 789 | 740 | 600 | 500 | 438 | 320 | 187.0 | 131.4 | 111.7 | 85.0 | 47.8 | 31.0 |
| 1.75V | 723 | 720 | 595 | 491 | 435 | 310 | 183.0 | 130.3 | 110.8 | 84.2 | 47.6 | 30.9 |
| 1.80V | 651 | 502 | 450 | 364 | 296 | 291 | 176.2 | 125.8 | 110.2 | 83.8 | 47.5 | 30.7 |
| 1.85V | 572 | 450 | 400 | 334 | 283 | 267 | 164.6 | 116.8 | 108.5 | 82.6 | 46.9 | 30.6 |

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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