

# 6-GFMHR

## High Rate Battery

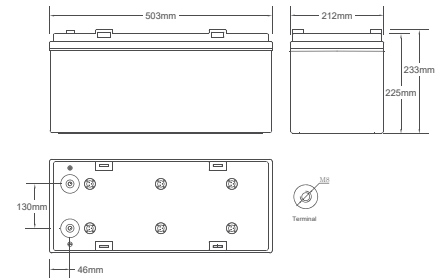
### 6-GFMHR-700W



### 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	700W,15min to 1.67V/cell( 25°C)
Weight	58.1 kg(128.09 lbs)
Dimensions	Length: 503 mm (19.80 in) Width: 212 mm (8.35 in) Height: 225 mm (8.86 in) Total height: 233 mm (9.17 in)
Internal Resistance (full charged)	2.2 mΩ
Short- circuit Current	5200 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	27 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 <sub>10</sub> )	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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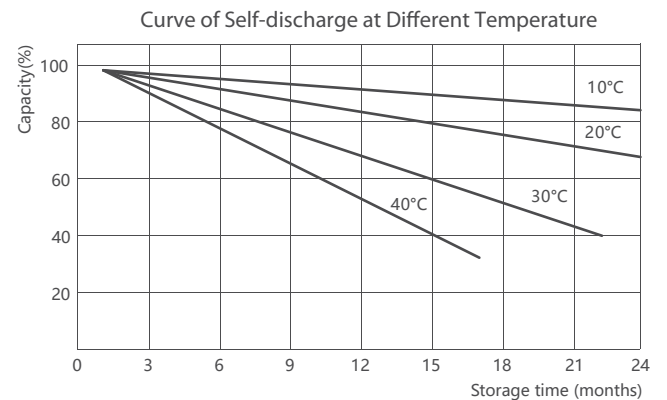
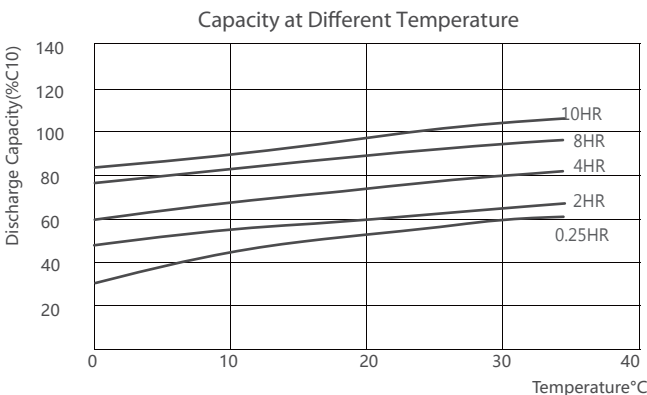
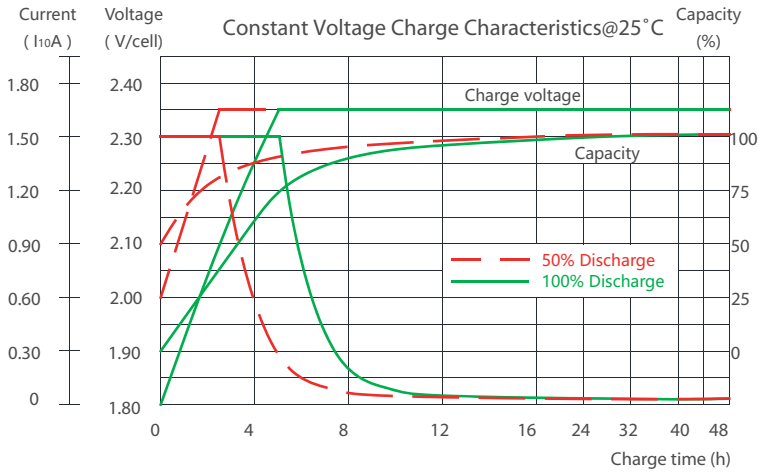
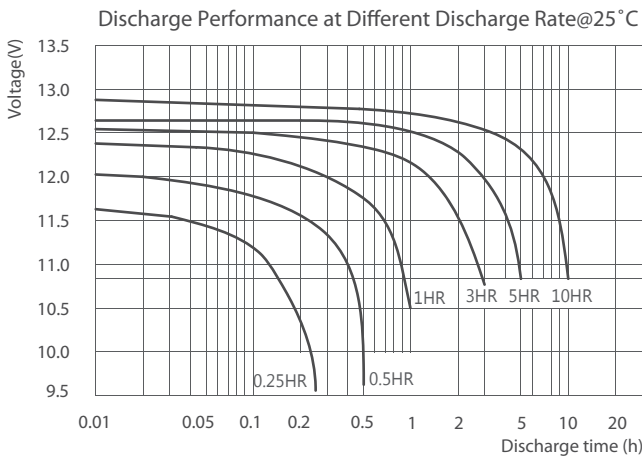
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	488	450	350	288	234	211	123.6	83.2	72.0	51.9	30.1	18.5
1.67V	470	443	347	284	231	208	121.2	82.0	71.1	51.5	29.9	18.4
1.70V	459	432	345	279	230	203	120.0	79.2	69.3	50.4	29.6	18.3
1.75V	419	410	322	270	225	193	114.0	77.5	68.4	49.7	29.3	18.2
1.80V	381	315	299	207	180	169	111.1	75.8	67.5	49.1	28.9	18.0
1.85V	360	306	272	189	163	156	101.3	71.8	65.7	48.2	27.7	17.8

### 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	897	849	709	558	486	363	217.9	161.4	129.6	100.3	61.1	37.4
1.67V	884	840	700	554	481	359	214.4	159.0	128.5	99.2	60.7	37.1
1.70V	875	812	656	551	479	357	212.1	156.7	126.1	97.4	60.3	36.1
1.75V	837	793	633	546	474	350	209.7	154.3	126.0	96.5	59.9	35.7
1.80V	687	626	578	420	343	310	203.8	153.2	124.9	95.9	59.3	35.5
1.85V	679	607	525	376	322	293	190.9	147.3	123.7	94.9	57.1	35.3

### Performance Curve



**\*Declaration:**

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