

# 6-GFMHR

## High Rate Battery

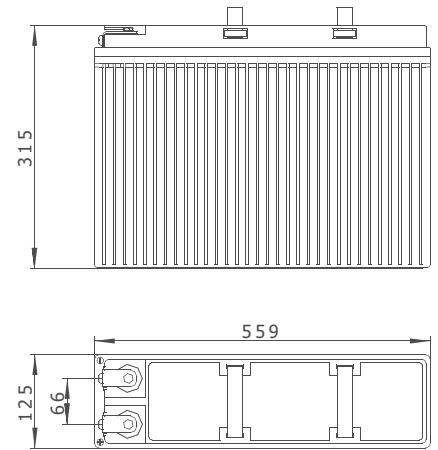
### 6-GFMHR-700XW



### 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	60kg(132.27 lbs)
Dimensions	Length: 559 mm (22.01 in) Width: 125 mm (4.92 in) Height: 315 mm (12.40 in)
Internal Resistance (full charged)	2.8 mΩ
Short- circuit Current	2684 A
Self Discharge C <sub>10</sub> @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
- ISO 14001
- GB/T 28001
- UL
- CE

### 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 greatly extend the battery life

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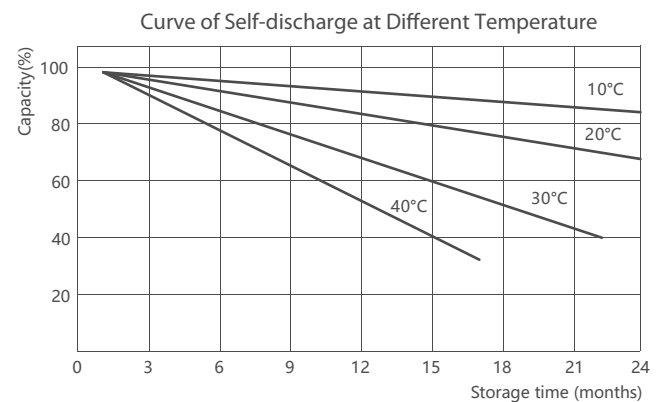
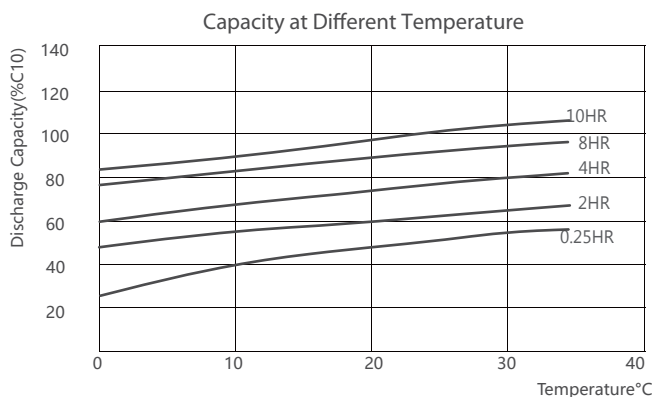
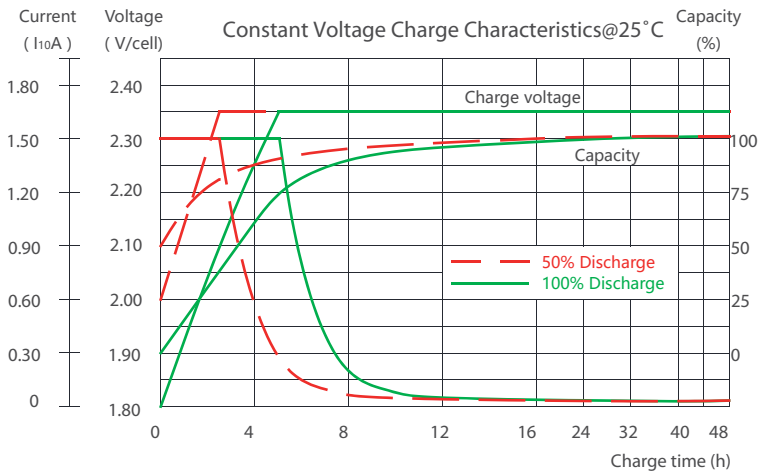
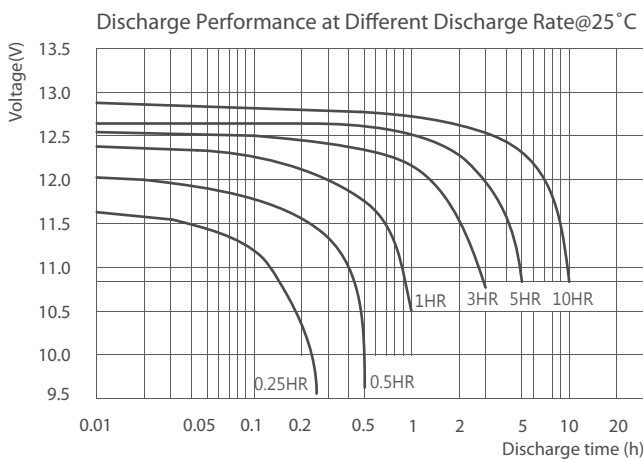
#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	495	370	351	277	237	213	123.8	83.3	72.4	52.2	30.1	18.9
1.67V	474	361	348	275	228	209	121.4	82.1	71.2	51.4	29.9	18.7
1.70V	463	356	345	273	221	203	120.5	80.9	69.6	50.4	29.8	18.5
1.75V	417	351	323	255	208	194	114.3	77.4	68.4	49.6	29.2	18.3
1.80V	385	342	300	237	190	168	109.5	76.3	67.5	49.5	29.1	18.2
1.85V	365	323	273	215	172	157	101.7	72.1	65.4	48.6	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	903	810	710	530	470	415	236.4	175.1	141.1	109.1	61.4	37.6
1.67V	877	800	700	526	465	411	232.5	172.5	139.2	107.3	61.1	37.4
1.70V	853	780	680	524	463	408	230.5	170.2	137.1	105.4	59.4	36.4
1.75V	794	730	620	520	460	400	227.5	166.9	136.4	104.3	59.3	36.3
1.80V	746	679	607	431	392	354	221.5	166.1	135.2	104.9	59.1	36.2
1.85V	710	620	550	401	368	335	207.3	160.3	133.3	103.5	57.8	35.4

#### Performance Curve



#### \*Declaration:

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