

# 6-GFMHR

## High Rate Battery

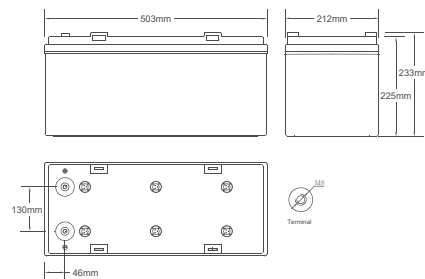
### 6-GFMHR-800W



### 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	800W,15min to 1.67V/cell( 25°C)
Weight	61 kg(138.48 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)	1.8 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	30 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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### 6-GFMHR-800W



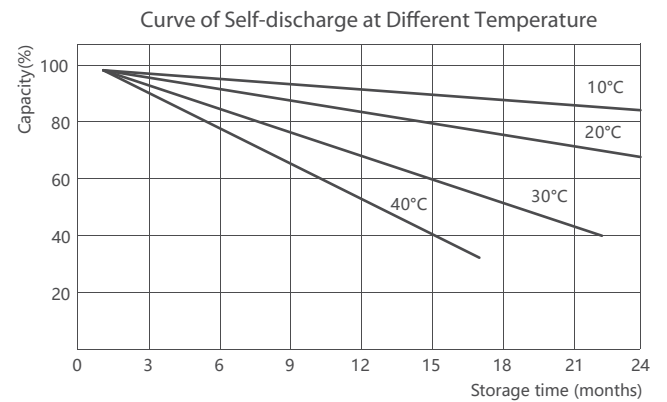
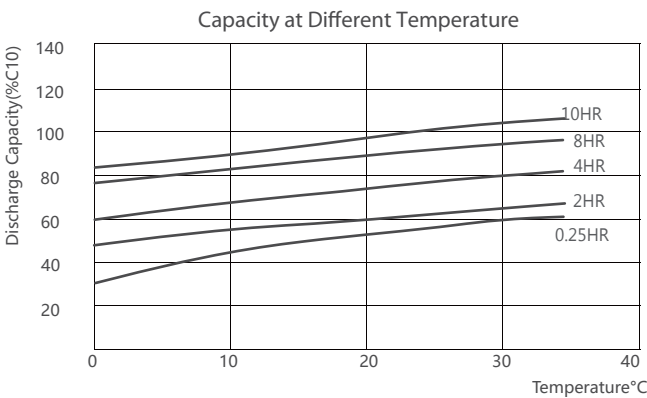
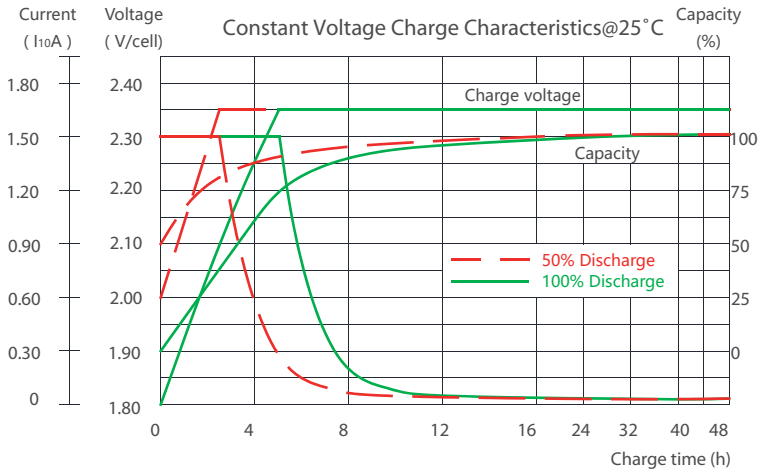
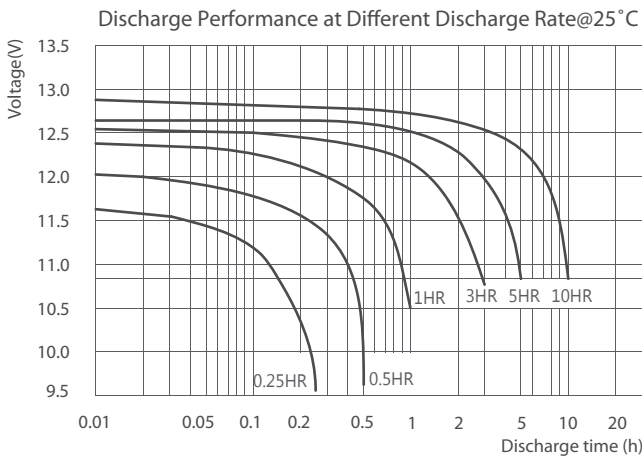
#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	543	500	389	320	260	235	137.3	92.4	80.0	57.7	33.5	20.5
1.67V	523	492	385	315	257	231	134.6	91.1	79.0	57.2	33.2	20.4
1.70V	510	480	383	310	255	226	133.3	88.0	77.0	56.0	32.9	20.2
1.75V	465	455	358	300	250	215	126.7	86.1	76.0	55.2	32.6	20.1
1.80V	424	350	333	230	200	187	123.4	84.2	75.0	54.6	32.1	20.0
1.85V	400	340	302	210	181	173	112.6	79.7	73.0	53.6	30.8	19.8

#### 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	1020	1010	810	638	555	415	249.1	184.5	148.1	114.6	69.8	42.8
1.67V	1010	1000	800	633	550	411	245.0	181.8	146.8	113.4	69.4	42.4
1.70V	1000	980	750	630	547	408	242.4	179.1	144.1	111.3	69.0	41.2
1.75V	956	936	700	624	542	400	239.7	176.4	143.0	110.3	68.4	40.8
1.80V	785	715	660	480	392	354	232.9	175.0	142.7	109.6	67.7	40.6
1.85V	776	693	600	430	368	335	218.1	168.3	141.4	108.5	65.2	40.4

#### Performance Curve



#### \*Declaration:

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