

6-GFMHR

High Rate Battery

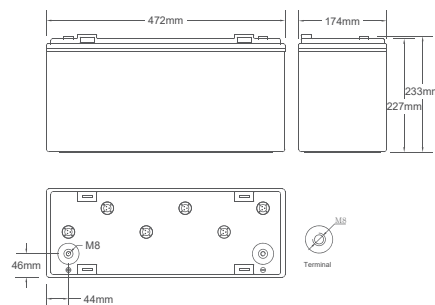
6-GFMHR-630W



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: 227 mm (8.94 in) Total height: 233 mm (9.17 in)
Internal Resistance (full charged)	2.20 mΩ
Short- circuit Current	3400 A
Self Discharge C ₁₀ @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
- 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 and stamping process greatly extend the battery life

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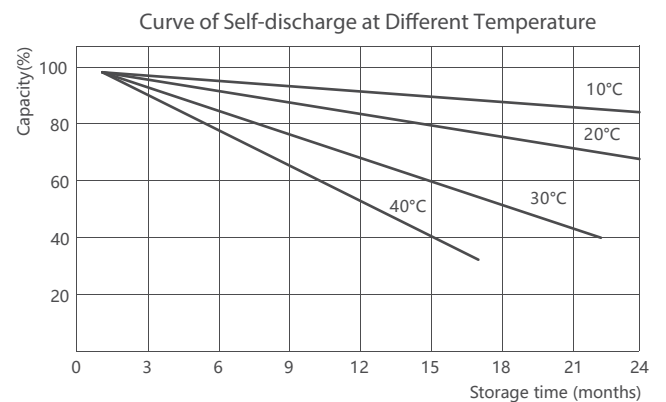
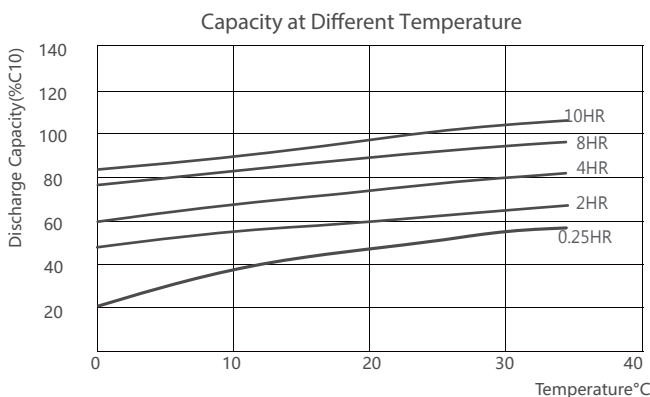
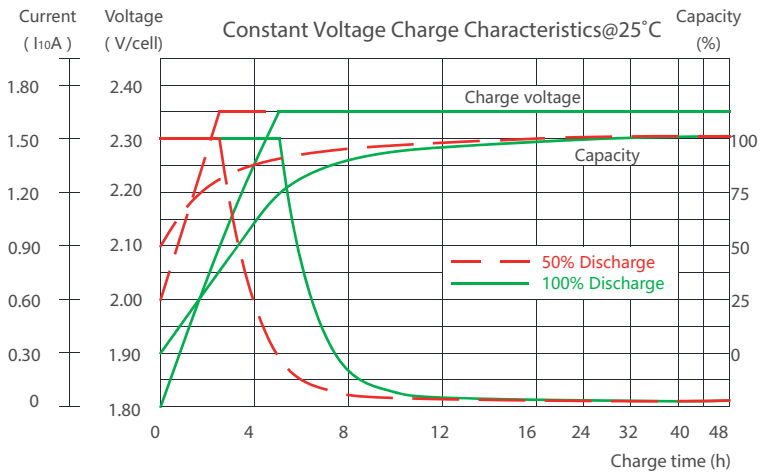
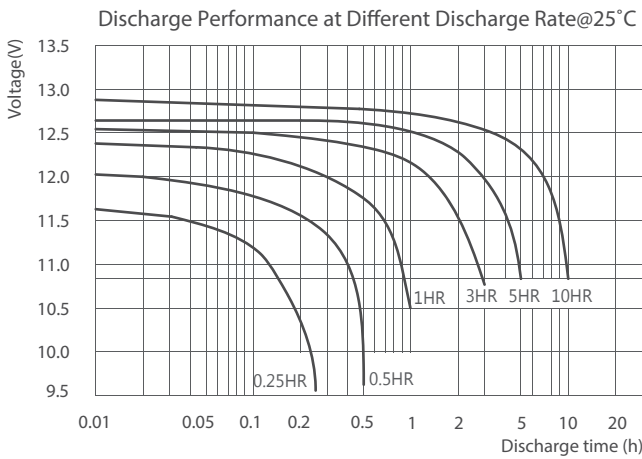
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	501	396	300	245	217	183	86.9	68.5	58.6	39.6	24.3	15.7
1.67V	458	363	295	240	215	180	85.6	67.4	57.8	39.2	24.1	15.5
1.70V	434	355	275	235	208	175	84.9	66.7	56.4	38.4	23.9	15.4
1.75V	396	340	270	230	198	168	82.5	65.8	55.7	37.9	23.7	15.1
1.80V	355	270	238	198	161	155	79.2	63.2	55.1	37.5	23.5	15.0
1.85V	310	240	215	180	144	143	73.6	58.4	54.0	36.8	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	168.5	133.6	114.9	78.0	48.1	31.6
1.67V	830	750	630	505	440	324	167.0	132.1	113.9	77.7	48.0	31.4
1.70V	789	740	600	500	438	320	166.4	131.4	111.7	76.5	47.8	31.2
1.75V	723	720	595	491	435	310	162.9	130.3	110.8	75.8	47.6	30.9
1.80V	651	502	450	364	296	291	156.8	125.8	110.2	75.4	47.5	30.7
1.85V	572	450	400	334	283	267	146.5	116.8	108.5	74.4	46.9	30.6

Performance Curve



*Declaration:

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