

# GFMHR Series

High-rate Valve-regulated Lead Acid Battery

GFMHR-1770W



双登集团  
SHUANGDENG GROUP

shoto®



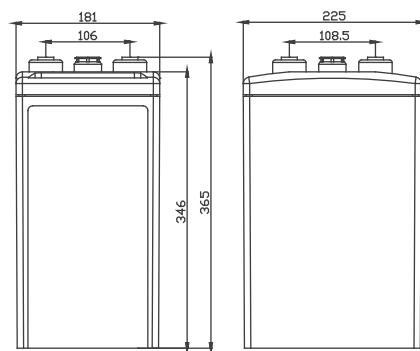
## Main Applications

- ▶ IDC and UPS
- ▶ High power & large current application scenarios
- ▶ Backup power for high precision device
- ▶ Emergency lighting, navigation lights

## Benefits

- ▶ Specifically designed for high power & large current application scenarios with superior high rate, short term power
- ▶ Designed life of 12 years
- ▶ Low annual operating cost
- ▶ High security, reliability and stability

## Dimensions



## Technical Parameters

Nominal Voltage	2 V
Capacity	600 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	34.0 kg (74.85 lbs)
Dimensions	Length: 225 mm (8.86 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.32 mΩ
Short-circuit Current	11000A
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	90 A
Charging Voltage @25°C(77°F)	Float: 2.25 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)	12 years

## Certification

- ISO9001
- ISO14001
- GB/T 28001

## Technical Features

- ▶ Lower internal resistance and voltage drop, suited for high rate discharge applications and high efficient UPS
- ▶ Lower self-discharge rate, better charge acceptability and higher sealing reaction efficiency
- ▶ Exquisite craftsmanship and good coherence of internal resistance, capacity

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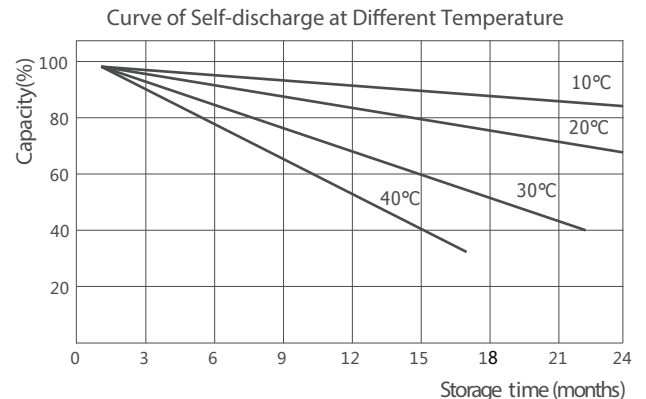
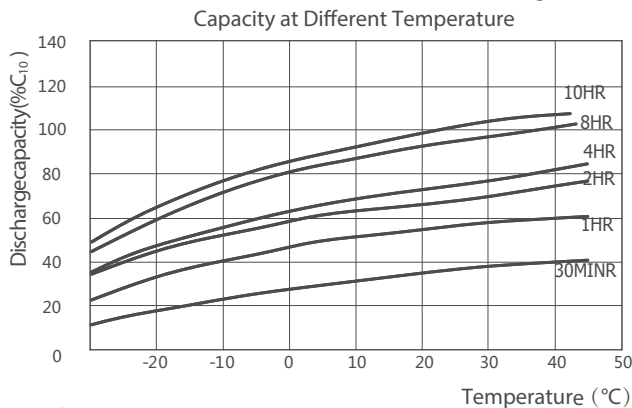
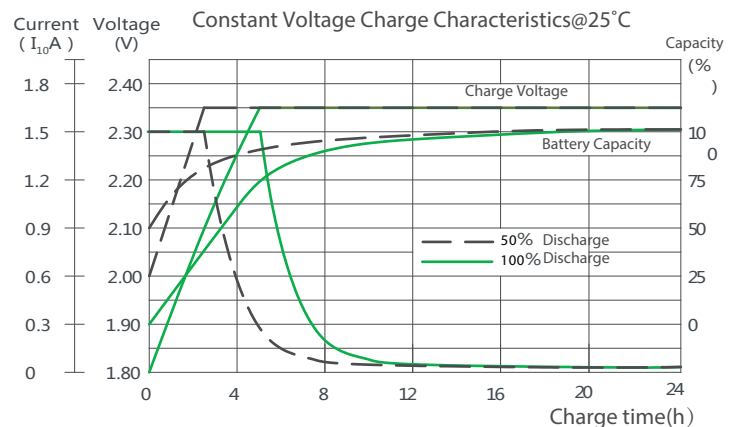
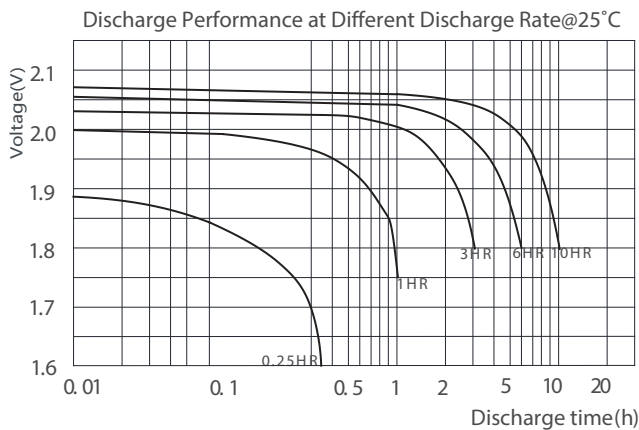
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1554	1311	1107	899	668	404	--	--	--	--	--	--	--
1.67V	1458	1218	1031	864	644	391	238	168.0	140.2	110.4	--	--	--
1.70V	1397	1158	970	824	625	382	233	165.5	137.3	109.2	102.9	<b>75.9</b>	--
1.75V	1180	1055	886	755	605	365	227	162.3	136.0	108.5	101.3	<b>75.1</b>	60.8
1.80V	1064	890	783	661	528	326	220	159.2	133.6	108.0	100.2	<b>74.2</b>	60.2
1.85V	862	744	654	540	435	253	209	148.5	123.4	101.8	96.5	<b>74.1</b>	59.7

## Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	2562	2247	1851	1554	1156	721	--	--	--	--	--	--	--
1.67V	2450	2160	1770	1500	1137	718	439	312.9	262.8	218.6	--	--	--
1.70V	2319	2112	1734	1448	1127	704	435	310.8	259.7	217.3	200.5	150.6	--
1.75V	2007	1950	1625	1396	1111	680	426	304.6	257.1	215.9	197.6	149.4	119.6
1.80V	1879	1723	1460	1221	983	610	416	300.4	254.0	215.1	196.4	148.3	118.4
1.85V	1596	1477	1241	1023	828	492	410	291.5	244.7	212.4	196.0	147.1	117.4

## 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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