

GFMHR Series

High-rate Valve-regulated Lead Acid Battery
GFMHR-2000W



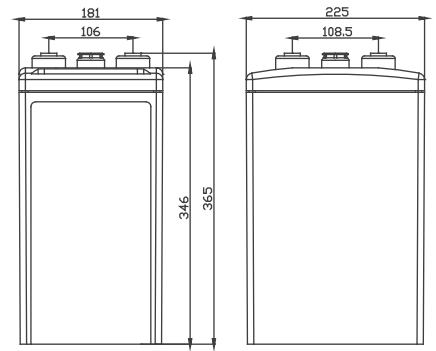
Main Applications

- ▶ 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	650 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	36.1 kg (79.6 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)	0.30 mΩ
Short-circuit Current	12000A
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	105A
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 ₁₀)	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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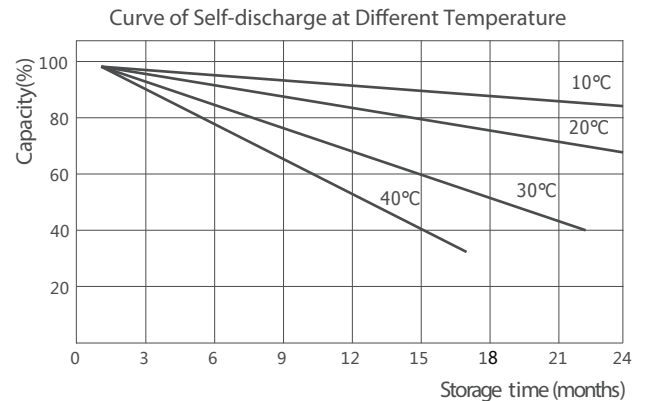
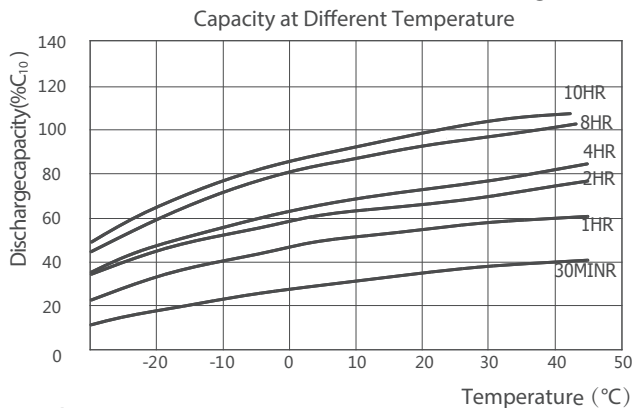
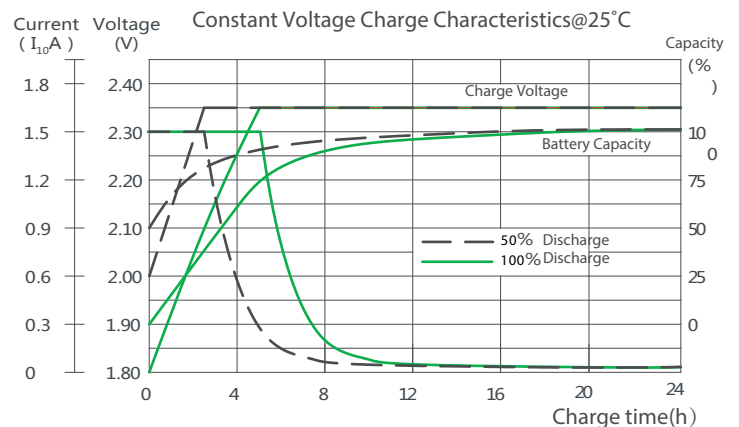
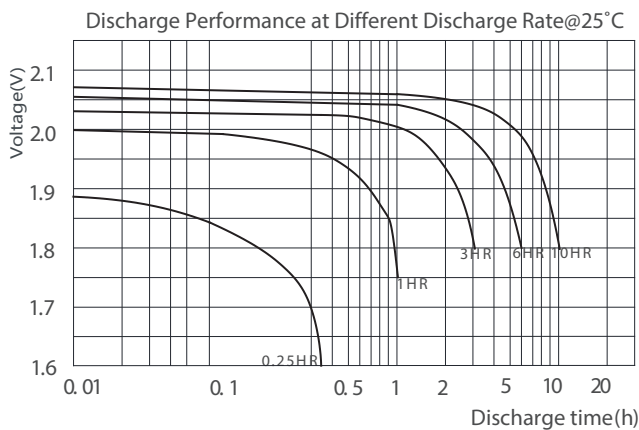
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1666	1408	1189	938	759	447	--	--	--	--	--	--	--
1.67V	1562	1308	1108	894	728	434	259	187.6	148.8	129.4	--	--	--
1.70V	1497	1243	1041	861	709	425	254	185.3	146.2	128.5	109.6	88.3	--
1.75V	1265	1143	952	788	688	408	248	181.9	144.9	127.9	108.1	87.5	66.1
1.80V	1141	956	841	690	606	365	240	178.5	142.6	127.4	107.0	86.5	65.3
1.85V	924	799	702	564	506	287	229	166.8	131.8	120.7	103.1	83.2	64.7

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	2868	2515	2112	1607	1295	799	--	--	--	--	--	--	--
1.67V	2637	2325	2000	1552	1263	787	472	330.5	276.3	246.5	--	--	--
1.70V	2496	2274	1903	1498	1257	776	468	328.3	273.0	246.2	210.4	167.8	--
1.75V	2160	2099	1783	1444	1243	752	460	322.5	270.9	245.4	208.2	166.5	129.3
1.80V	2023	1854	1602	1263	1109	678	449	318.6	268.1	244.9	207.3	165.4	128.2
1.85V	1718	1590	1362	1058	943	550	442	308.9	258.1	241.9	206.7	164.1	127.6

Performance Curve



*Declaration:

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