

GFMHR Series

High-rate Valve-regulated Lead Acid Battery
GFMHR-2200W



shoto



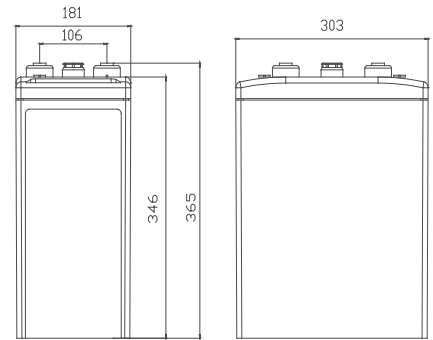
Main Applications

- ▶ 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	800 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	45.1 kg (99.3 lbs)
Dimensions	Length: 303 mm (11.93 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	13000A
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	120 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 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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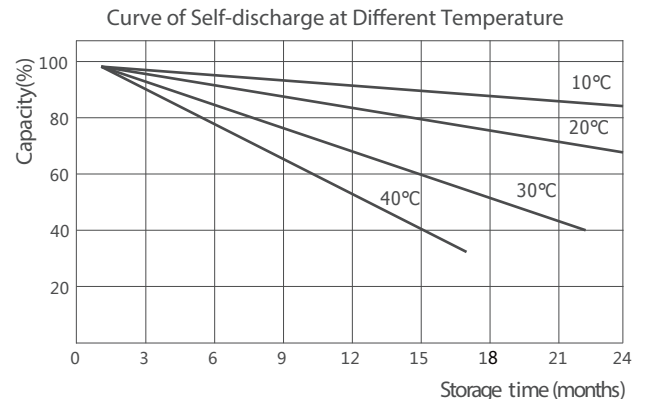
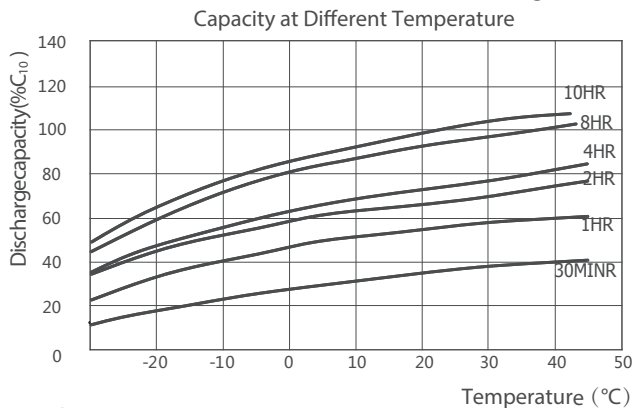
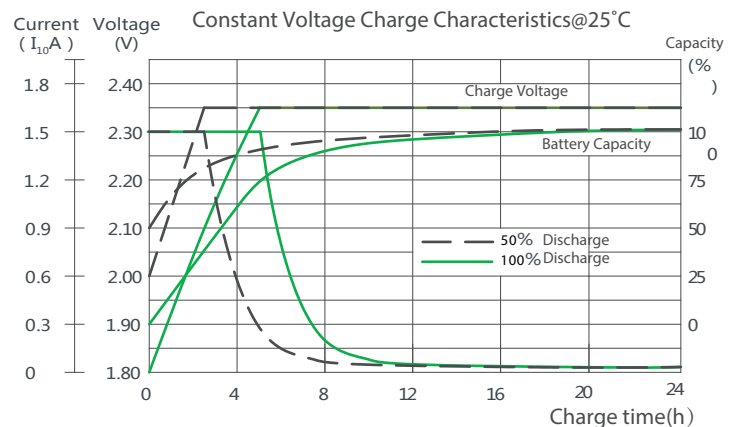
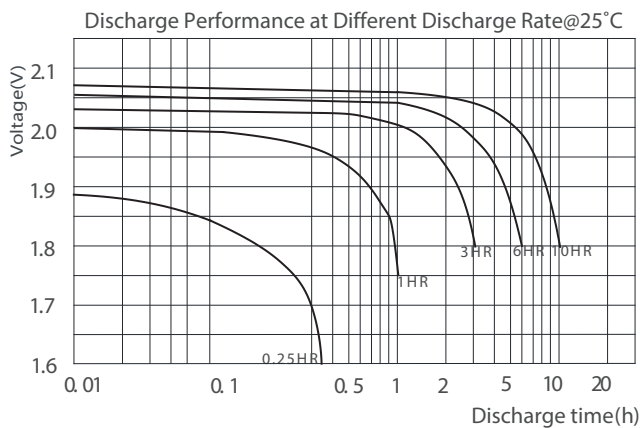
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1908	1568	1324	1066	867	496	--	--	--	--	--	--	--
1.67V	1800	1465	1241	1030	843	483	285	222	174	151	--	--	--
1.70V	1724	1392	1166	983	818	472	280	218	170	150	132.3	99.4	--
1.75V	1456	1270	1066	900	793	453	272	215	168	149	130.3	98.6	81.2
1.80V	1315	1071	943	788	696	405	264	211	165	148	128.9	97.5	80.3
1.85V	1064	903	786	644	580	318	251	196	153	141	124.1	93.8	79.6

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	3206	2812	2317	1908	1547	923	--	--	--	--	--	--	--
1.67V	3045	2684	2200	1838	1508	898	534	419	331	294	--	--	--
1.70V	2859	2604	2138	1754	1502	888	530	417	327	293	261.9	197.5	--
1.75V	2477	2407	2006	1692	1484	860	520	409	324	292	258.5	196.2	160.4
1.80V	2325	2131	1806	1483	1324	775	508	404	321	291	257.6	195.3	158.3
1.85V	1967	1821	1530	1238	1123	628	499	391	307	287	256.0	193.2	156.2

Performance Curve



*Declaration:

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