

GFMHR Series

High-rate Valve-regulated Lead Acid Battery

GFMHR-900W



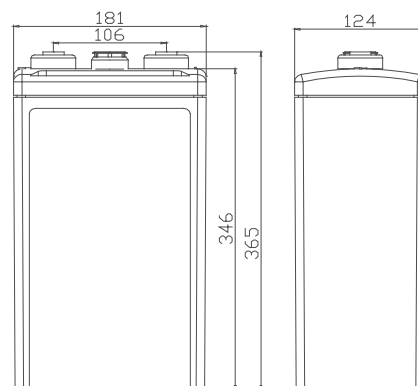
Main Applications

- ▶ 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	300 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	17.8 kg (39.3 lbs)
Dimensions	Length: 124 mm (4.88 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.45 mΩ
Short-circuit Current	6200 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	45 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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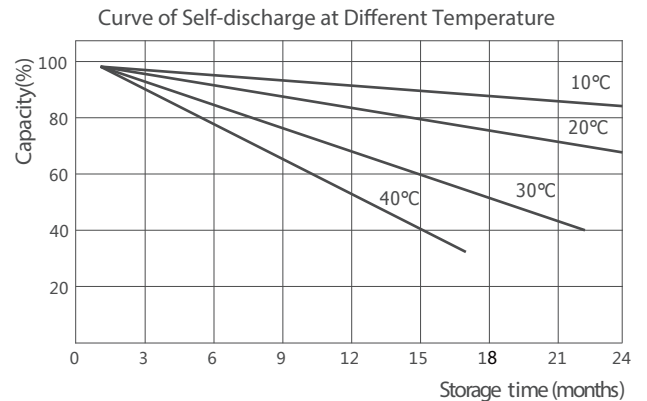
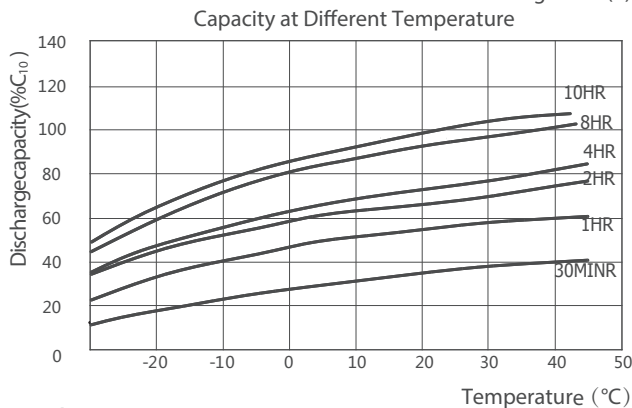
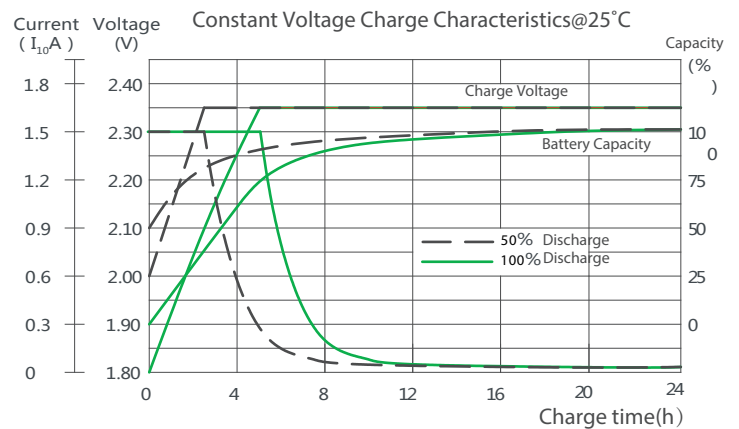
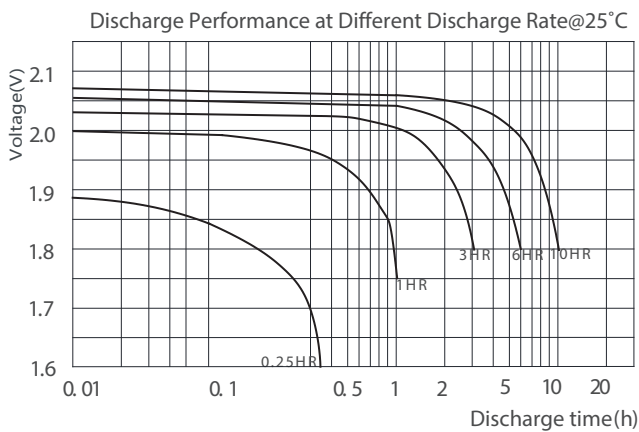
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	780	646	546	444	341	201	--	--	--	--	--	--	--
1.67V	743	603	510	428	331	197	116	85.0	71.1	59.5	--	--	--
1.70V	712	573	480	408	321	193	114	83.7	69.7	59.0	50.7	37.8	--
1.75V	602	522	439	373	311	185	111	82.1	69.0	58.6	50.0	37.5	30.7
1.80V	543	440	388	327	273	165	107	80.5	67.8	58.4	49.4	37.1	30.2
1.85V	440	362	323	267	228	130	102	75.1	62.6	55.2	47.6	35.7	29.8

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	1299	1139	939	787	604	376	--	--	--	--	--	--	--
1.67V	1245	1098	900	762	591	366	217	161.7	136.2	116.0	--	--	--
1.70V	1158	1055	866	723	586	359	215	160.1	134.1	115.5	99.8	74.0	--
1.75V	1003	974	812	697	578	348	210	156.9	132.8	114.9	98.4	73.5	60.4
1.80V	939	817	729	610	515	313	205	154.8	131.2	114.5	97.8	72.9	59.3
1.85V	798	707	620	511	438	254	202	150.2	126.4	113.1	97.6	72.4	58.2

Performance Curve



*Declaration:

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