

GFMHR Series

High-rate Valve-regulated Lead Acid Battery

GFMHR-750W



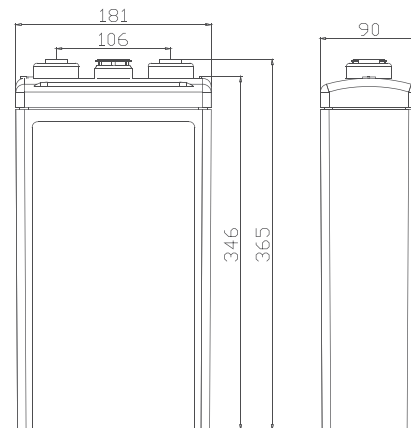
Main Applications

- ▶ 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	240 Ah @ 10hr to 1.80 V per cell @ 25°C(77°F)
Weight	13.8 kg (30.38 lbs)
Dimensions	Length: 90 mm (3.54 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.55 mΩ
Short-circuit Current	5000 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	36 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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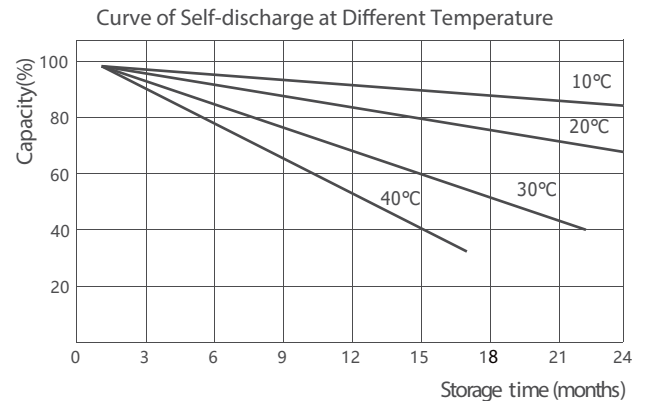
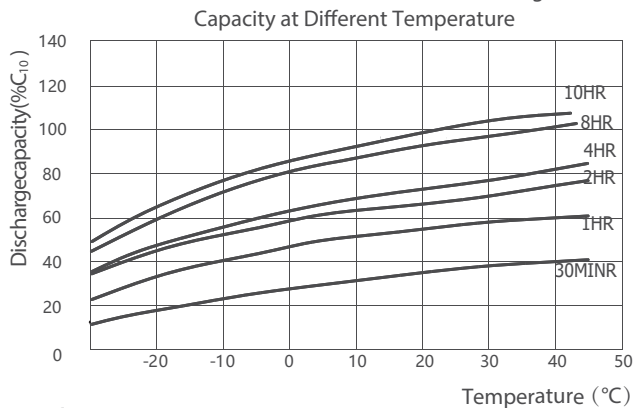
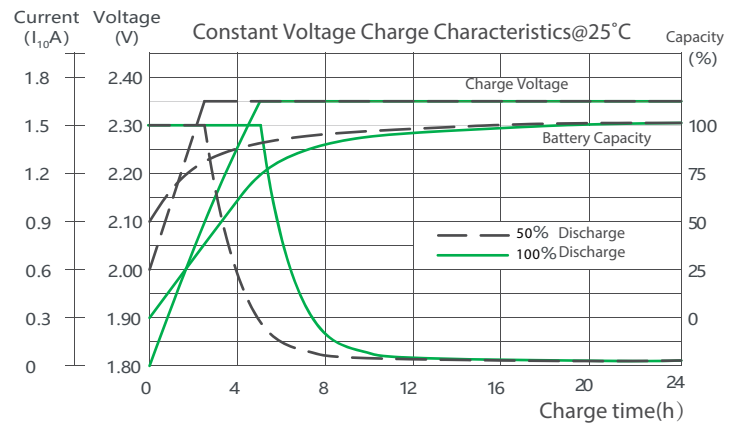
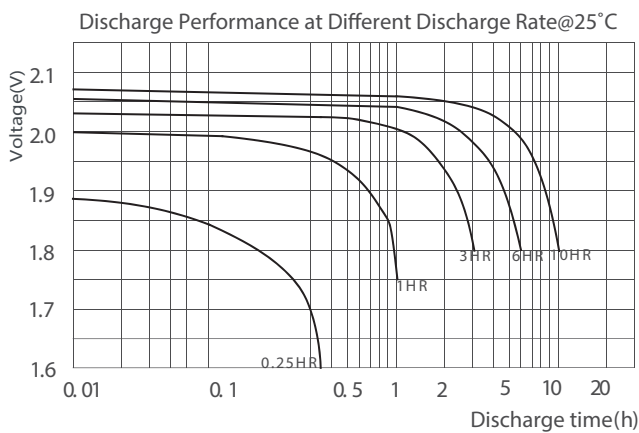
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	633	503	455	342	271	151	--	--	--	--	--	--	--
1.67V	603	469	425	329	263	149	87	67.5	52.9	43.9	--	--	--
1.70V	578	446	400	314	255	145	85	66.4	51.9	43.5	37.0	29.8	--
1.75V	488	406	365	287	248	140	83	65.2	51.4	43.2	36.5	29.6	24.9
1.80V	440	343	323	252	217	125	80	63.9	50.5	43.0	36.1	29.3	24.3
1.85V	357	281	270	206	181	98	77	59.6	46.6	40.7	34.8	28.1	23.8

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	1032	886	782	606	480	284	--	--	--	--	--	--	--
1.67V	989	854	750	586	470	276	163	128.4	101.3	85.5	--	--	--
1.70V	920	821	722	557	466	271	161	127.1	99.8	85.2	72.9	58.9	--
1.75V	796	758	677	537	460	263	157	124.6	98.8	84.7	71.8	58.5	48.8
1.80V	746	635	608	470	409	236	153	122.9	97.7	84.4	71.4	58.1	47.6
1.85V	634	550	517	393	348	192	151	119.2	94.1	83.4	71.3	57.6	46.5

Performance Curve



*Declaration:

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