

GFMHR Series

High-rate Valve-regulated Lead Acid Battery

GFMHR-1250W



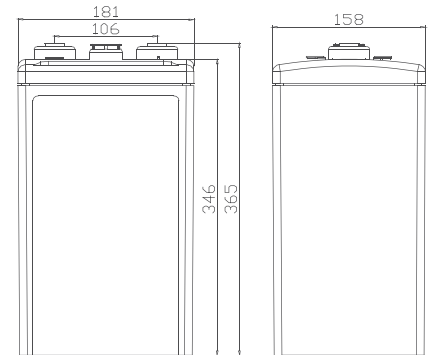
Main Applications

- ▣ 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	430 Ah @ 10hr to 1.80 V per cell @ 25°C(77°F)
Weight	23.4 kg (51.6 lbs)
Dimensions	Length: 158 mm (6.22 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.36mΩ
Short-circuit Current	7700 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	65A
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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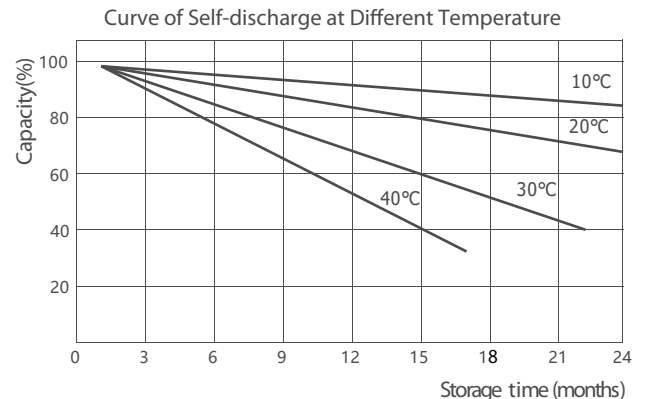
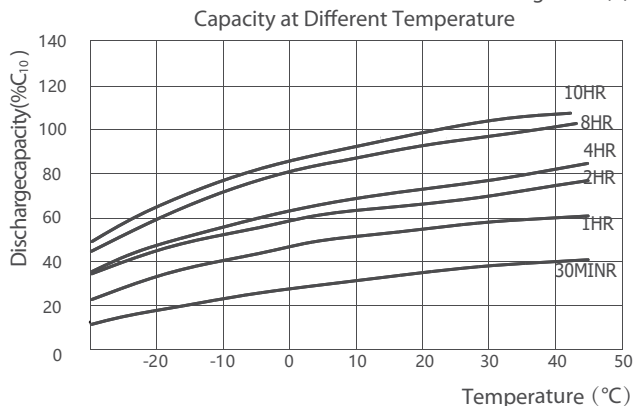
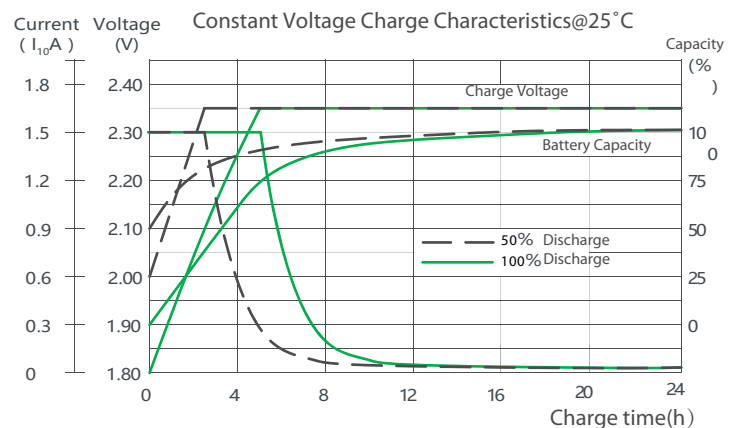
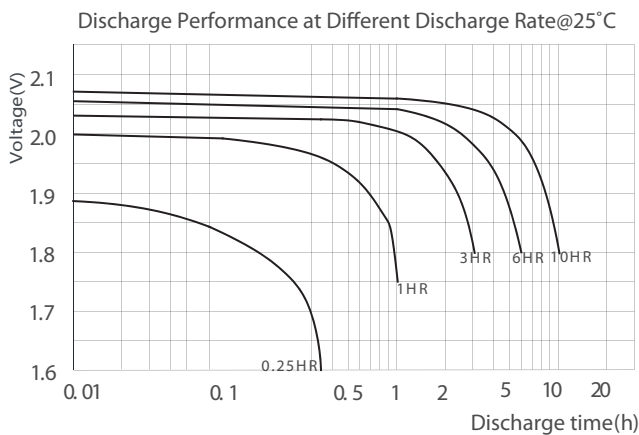
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1048	890	752	599	474	273	--	--	--	--	--	--	--
1.67V	988	832	704	579	461	266	162	118.5	96.4	81.4	--	--	--
1.70V	946	789	661	552	448	261	159	116.6	94.4	80.6	70.8	52.4	--
1.75V	800	721	605	506	434	250	154	114.4	93.5	80.1	69.7	51.7	44.1
1.80V	722	608	535	443	381	224	150	112.2	91.9	79.8	69.0	50.1	43.3
1.85V	584	498	446	362	317	175	143	104.8	84.8	75.5	66.4	49.2	42.6

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	1738	1524	1293	1063	840	505	--	--	--	--	--	--	--
1.67V	1660	1464	1250	1026	827	497	304	222.1	183.6	160.1	--	--	--
1.70V	1566	1427	1207	988	824	491	301	221.0	181.8	159.5	140.5	101.4	--
1.75V	1355	1317	1130	952	813	475	297	216.6	180.0	158.6	138.5	100.8	84.9
1.80V	1271	1165	1017	834	725	428	289	214.0	178.1	158.3	137.9	99.0	82.7
1.85V	1079	990	864	698	617	348	285	207.5	171.5	156.3	137.5	98.1	81.8

Performance Curve



*Declaration:

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