

GFMHR Series

High-rate Valve-regulated Lead Acid Battery
GFMHR-1500W



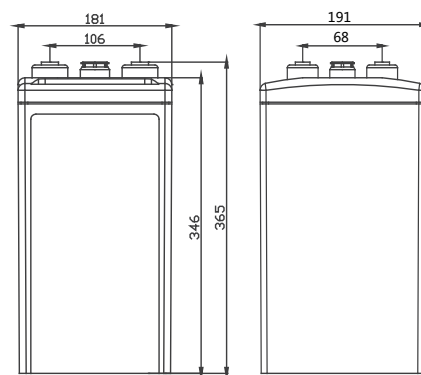
Main Applications

- ▣ 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	500 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	29.0 kg (63.94 lbs)
Dimensions	Length: 191 mm (7.52 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.34 mΩ
Short-circuit Current	8500A
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	75 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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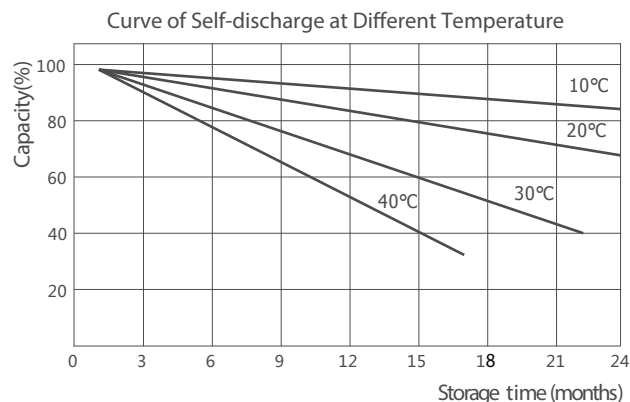
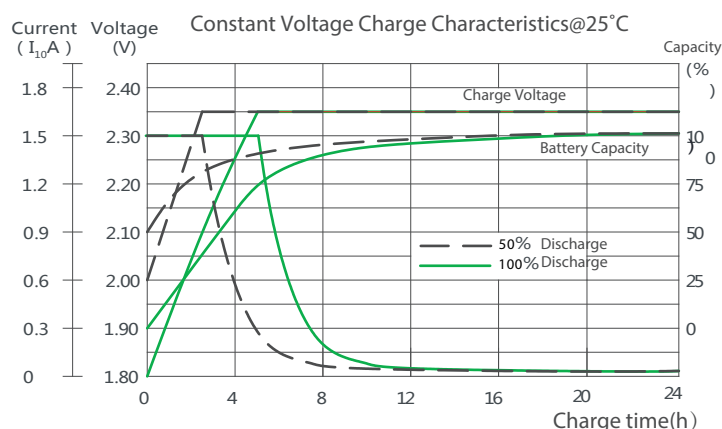
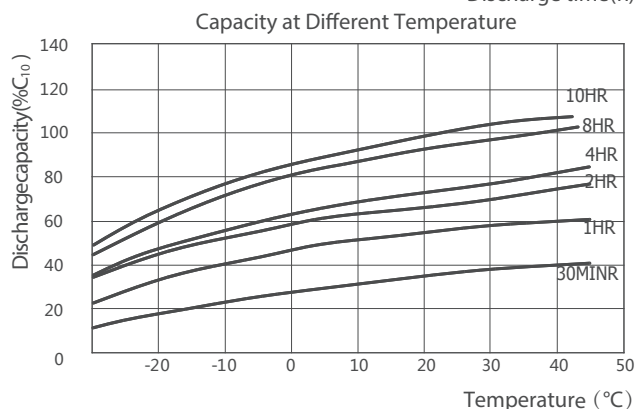
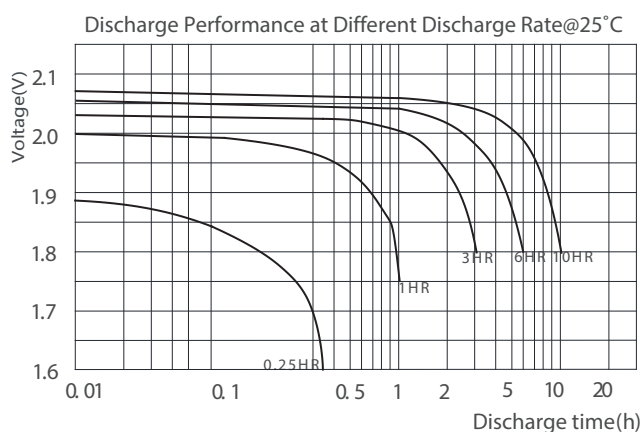
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1237	1057	893	694	555	321	--	--	--	--	--	--	--
1.67V	1165	988	836	671	539	314	185	142.9	111.6	97.0	--	--	--
1.70V	1117	939	786	640	523	306	182	140.8	109.3	96.1	82.6	62.9	--
1.75V	944	856	719	586	507	294	176	138.1	108.2	95.5	81.5	62.3	51.1
1.80V	851	722	635	513	445	263	171	135.6	106.4	95.1	80.5	61.7	50.3
1.85V	690	593	531	419	371	206	162	126.4	98.3	90.0	77.5	59.3	49.6

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	2050	1798	1546	1242	971	598	--	--	--	--	--	--	--
1.67V	1949	1718	1500	1192	952	585	348	270.8	212.7	190.6	--	--	--
1.70V	1832	1669	1431	1144	945	576	345	269.4	210.8	190.1	164.2	125.2	--
1.75V	1586	1541	1341	1103	933	558	338	264.0	208.6	188.9	161.9	124.4	101.2
1.80V	1487	1294	1206	966	832	502	329	260.8	206.4	188.6	161.1	123.6	99.6
1.85V	1262	1119	1025	808	708	408	325	252.9	198.8	186.3	160.9	122.6	98.2

Performance Curve



*Declaration:

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