

GFM-500

GFM Series VRLA Gel Battery

ALLGRAND®

Power the World



Applications

- Data/Computing Center, UPS, EPS
- Standby Power for Telecom and Mobile Systems
- Standby Power for Signaling Systems of Railway, Airport, and etc.
- Standby Power for Electrical Utilities and Nuclear Reactors

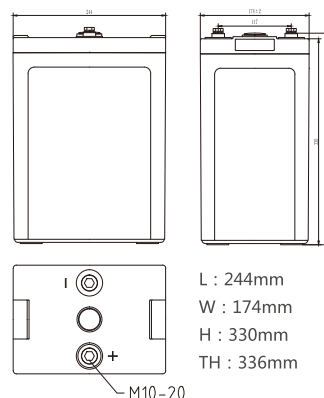
Highlights

- Long life design(up to 12 years)
- Reliably sealed
- High specific energy, low IR & self discharge
- Higher reaction efficiency and conformity

Features

- Float charging life prolonged by our proprietary corrosion resistant alloy;
- High-purity electrolytes and special agents reduce water loss;
- Impacts from earthquakes are reduced by compact seismic ABS jars and covers;
- Delicate seal technologies protect the battery from electrolyte leakage and creepage;
- The delicate construction of self-relief valves can avoid bulges and cracks.
- Easy installation and maintenance are provided by round copper core terminals

Dimensions



Certifications



Specifications

Model	GFM-500	
Design Life	12 years	
Nominal Capacity	20HR(27A,1.80V)	540Ah
	10HR(50A,1.80V)	500Ah
	3HR(135A,1.80V)	405Ah
	1HR(275A,1.80V)	275Ah
Internal Resistance	0.45mΩ(Full Charge)	
Self Discharge	≤3% per month	
Charge Voltage	Cycle Use	Standby Use
	2.33V/Cell (-4mV/°C/Cell) Max. Charge Current:75A	2.23V/Cell (-3mV/°C/Cell))

Note: Data contained herein are measured at 25°C

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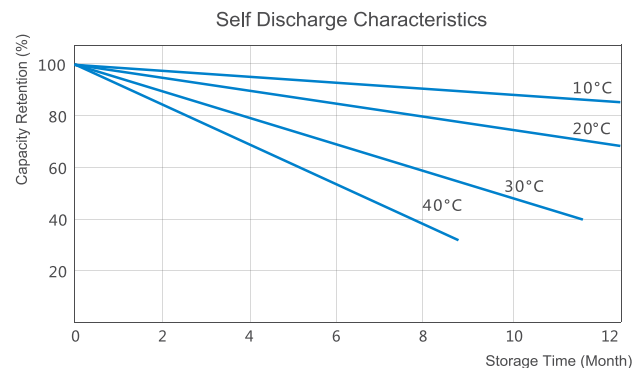
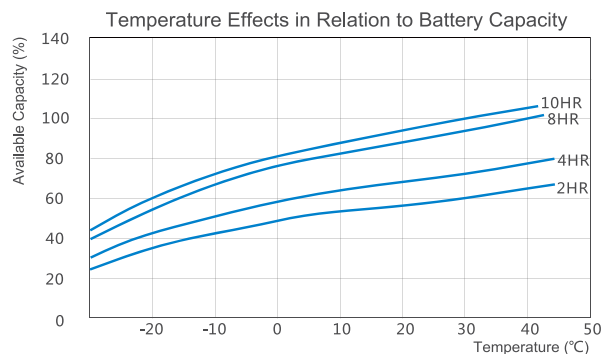
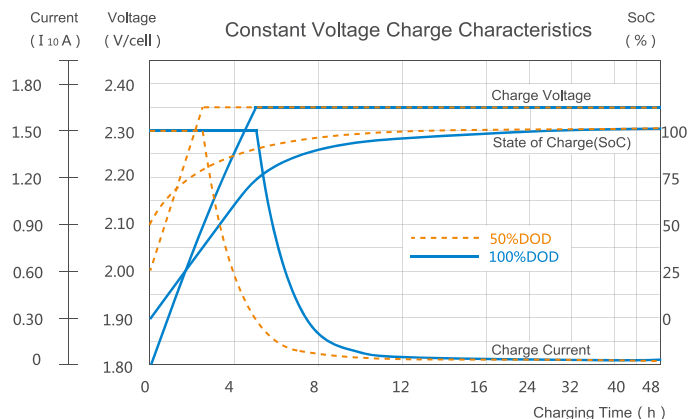
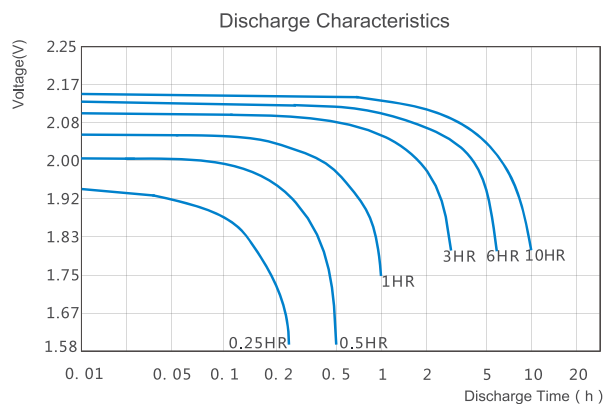
Constant Current Discharge Rate (A, 25°C)

Model	F.V. (V/Cell)	Minute						Hour								
		5	10	15	20	30	45	1	2	3	4	5	6	8	10	20
GFM-500	1.85	500	440	380	355	312	266	236	156	122	96.0	86.3	78.2	62.2	47.5	27.4
	1.80	551	510	470	429	361	299	260	169	129	104	89.1	81.3	66.0	50.6	28.5
	1.75	664	581	530	489	47	327	272	175	133	107	90.1	82.5	67.5	52.3	29.2
	1.70	741	663	584	530	442	341	277	176	134	109	90.5	83.0	68.0	53.1	29.3
	1.67	812	703	623	551	459	347	279	177	134	109	90.7	83.2	68.2	53.4	29.4
	1.60	918	778	678	588	477	353	281	178	135	110	90.9	83.6	68.6	53.7	29.6

Constant Power Discharge Rate (Watt/Cell, 25°C)

Model	F.V. (V/Cell)	Minute						Hour								
		5	10	15	20	30	45	1	2	3	4	5	6	8	10	20
GFM-500	1.85	855	765	720	680	602	526	459	300	238	189	174	158	125	95.6	52.5
	1.80	1004	905	832	758	667	557	498	326	251	199	179	163	132	100	56.2
	1.75	1129	1021	923	851	725	594	522	337	257	205	181	165	134	104	57.4
	1.70	1302	1112	1007	912	761	624	533	341	259	207	182	166	135	104	57.9
	1.67	1375	1179	1049	942	783	633	537	343	260	208	182	167	135	105	58.1
	1.60	1482	1292	1113	995	810	644	541	344	261	209	183	167	136	106	58.3

Performance



Disclaimer: All data presented above are subject to change without further notice.
Please contact ALLGRAND for latest updates.