

GFM-400

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

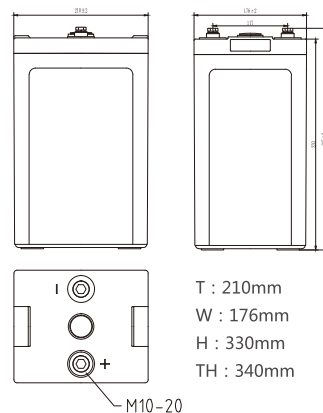
Highlights

- ▣ 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-400	
Design Life	12 years	
Nominal Capacity	20HR(21.6A,1.80V)	432Ah
	10HR(40A,1.80V)	400Ah
	3HR(108A,1.80V)	324Ah
	1HR(220A,1.80V)	220Ah
Internal Resistance	0.52mΩ(Full Charge)	
Self Discharge	≤3% per month	
Charge Voltage	Cycle Use	Standby Use
	2.33V/Cell (-4mV/°C/Cell) Max. Charge Current:60A	2.23V/Cell (-3mV/°C/Cell))

Note: Data contained herein are measured at 25°C

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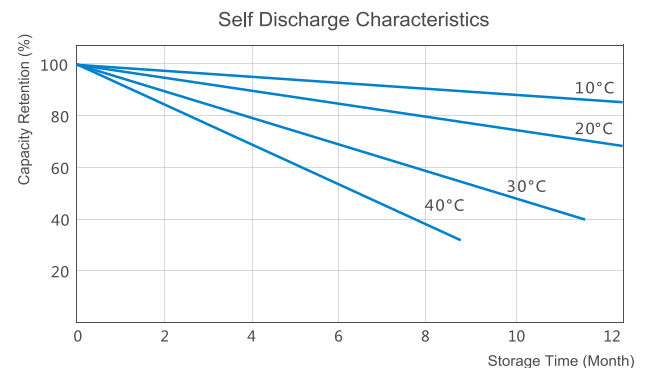
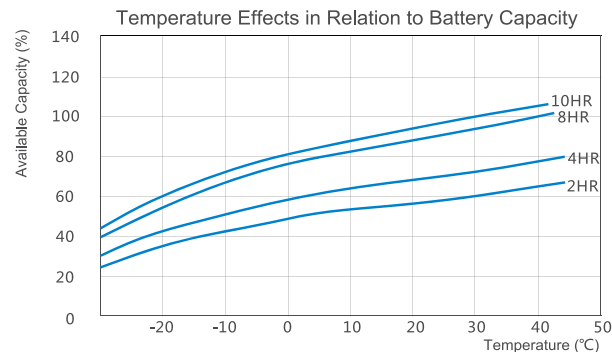
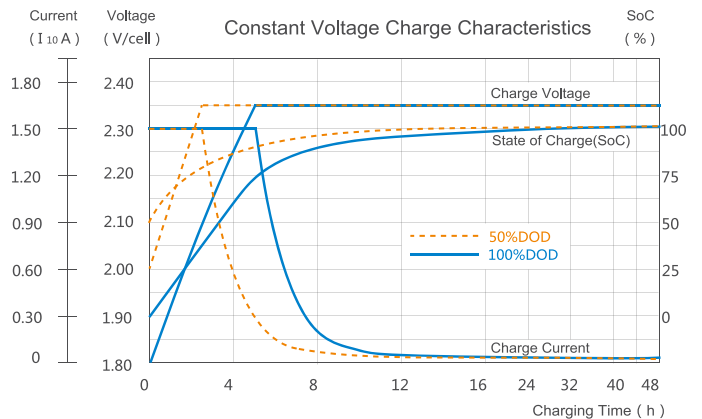
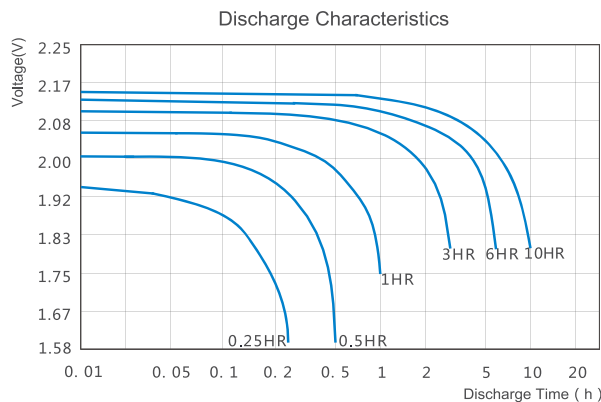
Constant Current Discharge Rate (A, 25°C)

Model	F.V. (V/Cell)	Minute						Hour								
		5	10	15	20	30	45	1	2	3	4	5	6	8	10	20
GFM-400	1.85	400	352	304	284	250	212	189	125	97.6	76.8	69.0	62.6	49.8	38.0	21.9
	1.80	441	408	376	343	288	239	208	135	104	83.4	71.3	65.0	52.8	40.4	22.8
	1.75	531	465	424	391	325	261	218	140	106	85.9	72.1	66.0	54.0	41.9	23.3
	1.70	593	530	467	424	354	273	222	141	107	86.8	72.4	66.4	54.4	42.5	23.5
	1.67	649	562	498	440	367	278	223	142	107	87.3	72.6	66.5	54.6	42.7	23.6
	1.60	734	623	542	470	382	282	225	142	108	87.9	72.7	66.8	54.9	43.0	23.7

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-400	1.85	684	612	576	544	482	421	367	240	190	151	139	126	99.8	76.4	42.0
	1.80	803	724	666	607	534	446	398	261	201	159	143	131	105	80.2	44.9
	1.75	903	817	738	681	580	475	418	270	206	164	145	132	107	82.9	45.9
	1.70	1042	890	805	730	609	499	427	273	207	165	145	133	108	83.6	46.3
	1.67	1100	943	839	753	626	507	430	274	208	166	146	133	108	83.9	46.5
	1.60	1186	1033	891	796	648	515	433	275	209	167	146	134	109	84.6	46.6

Performance



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