

# GFM Series

## GFM-1000 2V1000Ah

GFM series VRLA battery is a robust AGM battery designed for telecom, energy storage and UPS applications. Sacred Sun has got more than 10 years high volume manufacturing experience. Its excellent performance make it an impressive product in China and overseas market.



### Benefits

- Very long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

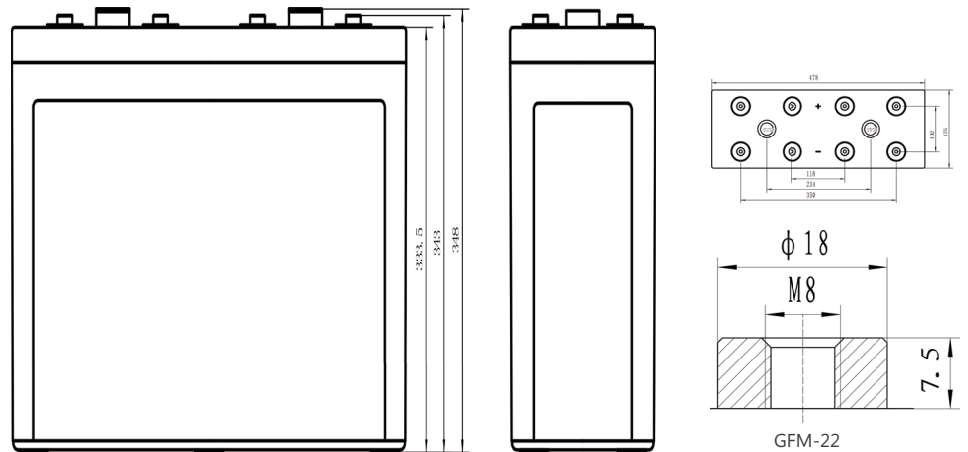
### Applications

- Telecommunications
- Power system
- Renewable energy
- UPS
- Emergency power

### Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

### Drawing



### Specifications

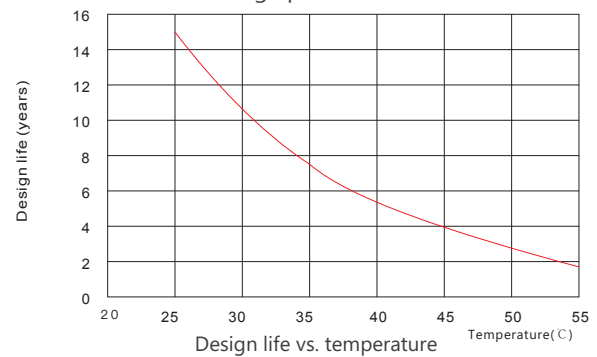
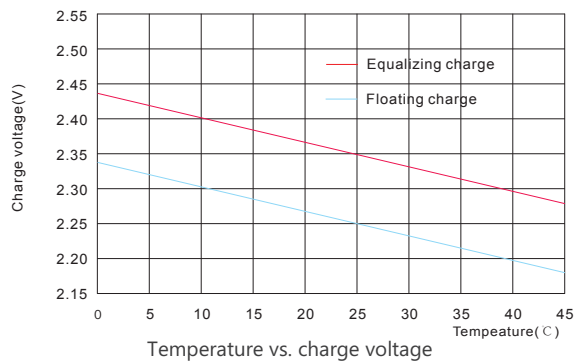
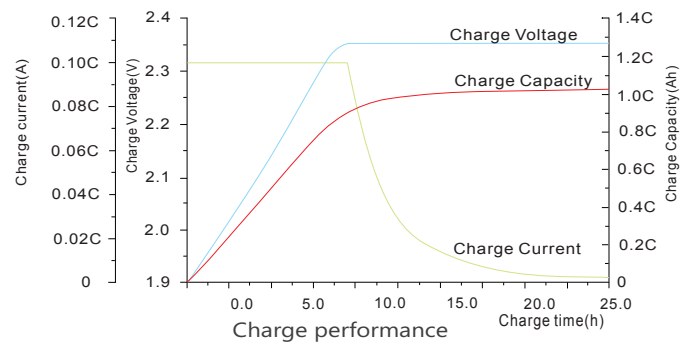
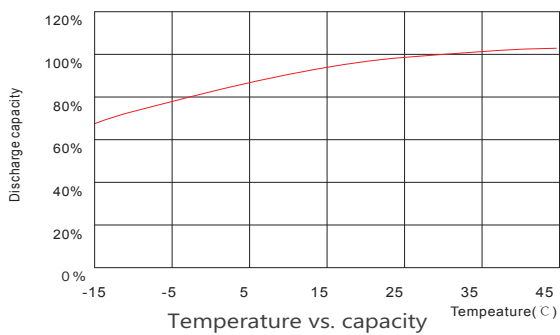
Battery Model	GFM-1000			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (100A, 1.80V)	5HR (171A, 1.80V)	3HR (252A, 1.80V)	1HR (552A, 1.75V)
	500	427	378	276
Dimensions (mm)	Length	Width	Height	Total Height
	478	175	333.5	348
Approx. Weight (kg)	67.0			
Reference Internal Resistance (mΩ)	0.19 ( fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	5200			
Self-Discharge (25°C)	≤ 1 % per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 200A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	12305			

## Discharge Data

Constant Current Discharge Data (25°C, A)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	2267	1736	1423	1202	945	592	363	268	179	156	124	104	44.3
1.65	2022	1575	1303	1109	883	576	357	264	177	154	123	103	44.0
1.70	1848	1432	1193	1061	824	556	350	260	175	153	122	102	43.8
1.75	1588	1312	1113	995	792	552	344	256	173	151	120	101	43.5
1.80	1406	1197	1041	926	760	533	336	252	171	149	119	100	43.2

Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	3305	2814	2351	2042	1591	1040	659	490	331	291	238	199	98.7
1.65	2977	2531	2134	1865	1489	995	637	476	326	286	236	196	96.8
1.70	2630	2297	1965	1721	1393	961	619	467	321	282	233	194	95.2
1.75	2315	2113	1814	1603	1303	916	604	457	315	278	230	191	93.8
1.80	2145	1931	1667	1475	1224	887	587	448	310	274	227	189	92.8

## Performance Curve



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