

# GFM Series

## GFM-800 2V800Ah

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

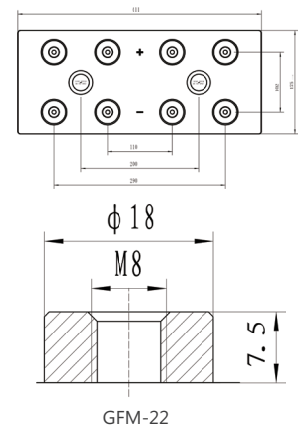
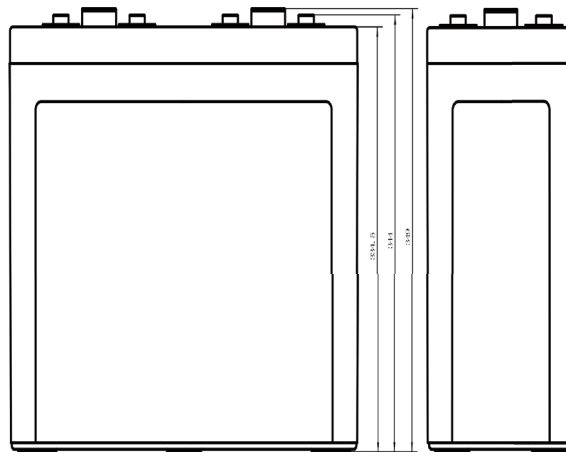
### Applications

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

### Standards

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

### Drawing



### Specifications

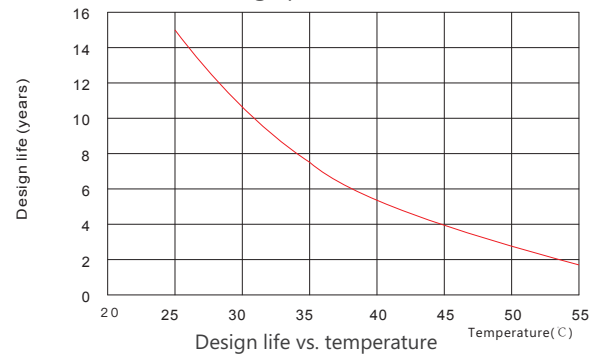
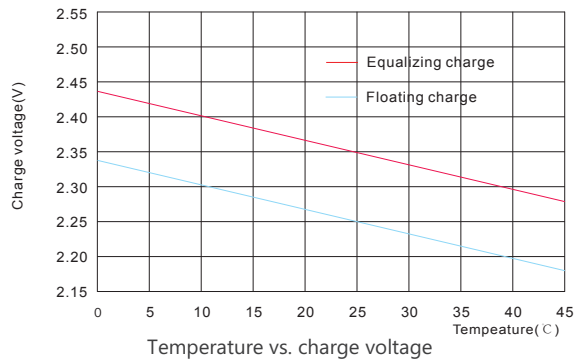
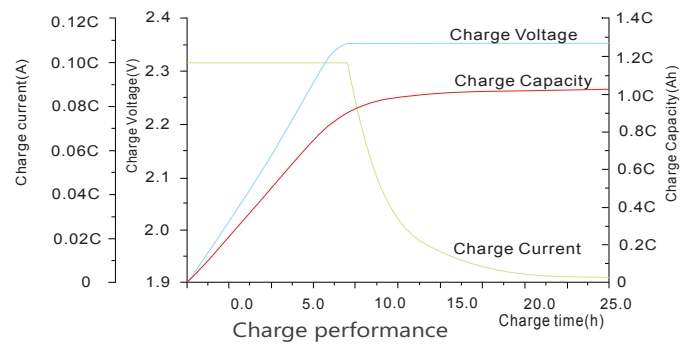
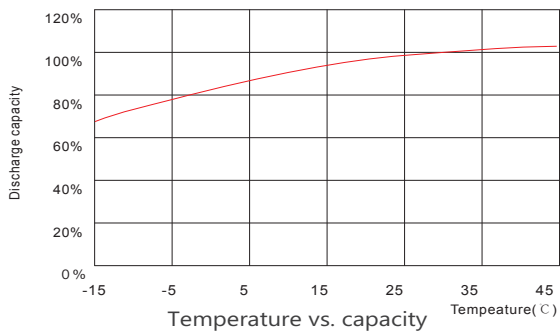
Battery Model	GFM-800			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (80A, 1.80V)	5HR (137A, 1.80V)	3HR (202A, 1.80V)	1HR (442A, 1.75V)
	800	685	606	442
Dimensions (mm)	Length	Width	Height	Total Height
	411	175	334.5	349
Approx. Weight (kg)	54			
Reference Internal Resistance (mΩ)	0.223 ( fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	4200			
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: 160A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	11204			

## 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	1813	1389	1138	961	756	473	290	214	143	125	99.2	82.8	35.5
1.65	1617	1260	1042	887	706	461	285	211	142	123	98.2	82.1	35.2
1.70	1478	1145	955	849	659	445	280	208	140	122	97.3	81.5	35.0
1.75	1270	1049	890	796	634	442	275	205	138	121	96.4	80.9	34.8
1.80	1125	958	832	741	608	427	269	202	137	119	95.3	80.0	34.5

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	2644	2252	1881	1633	1273	832	527	392	265	233	191	159	78.9
1.65	2381	2025	1707	1492	1191	796	509	381	261	228	189	157	77.5
1.70	2104	1838	1572	1377	1114	769	496	373	257	225	186	155	76.1
1.75	1852	1690	1452	1282	1042	733	483	366	252	223	184	153	75.0
1.80	1716	1545	1333	1180	979	709	470	358	248	219	181	151	74.2

## Performance Curve



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