

# GFM Series

## GFM-300 2V300Ah

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

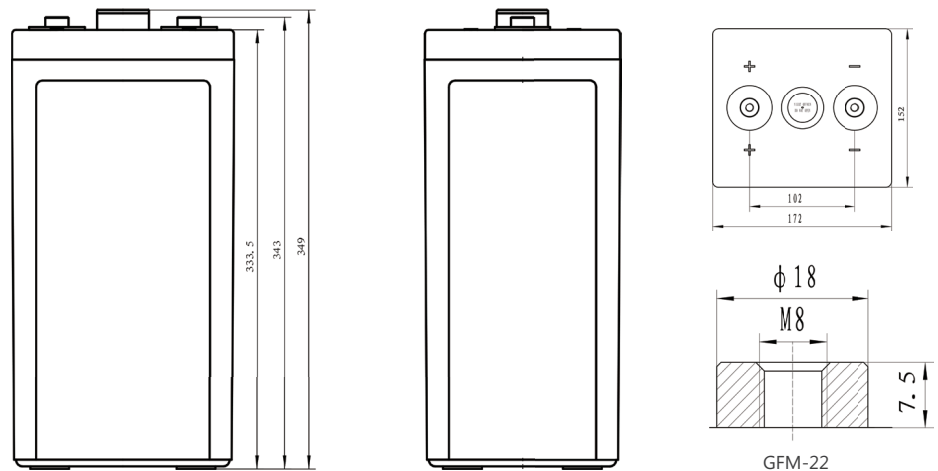
### Applications

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

### Standards

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

### Drawing



### Specifications

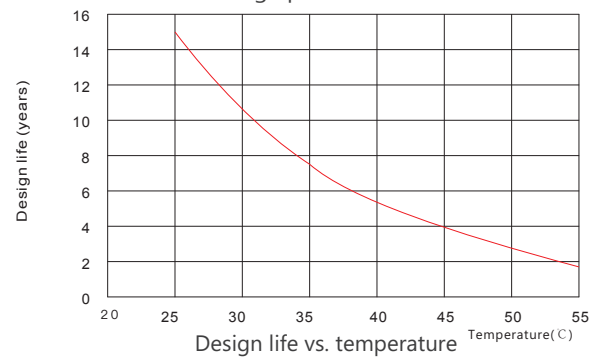
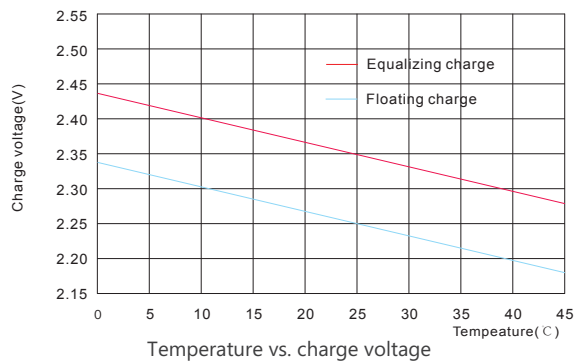
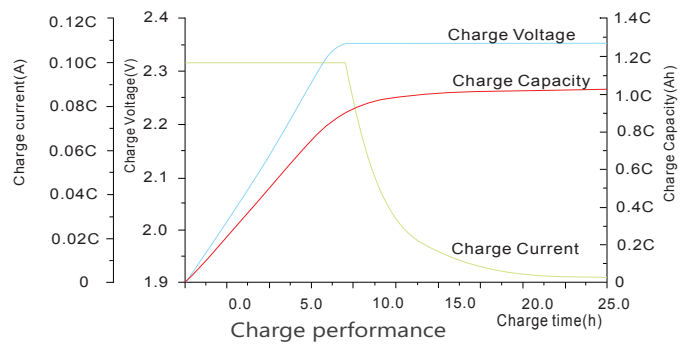
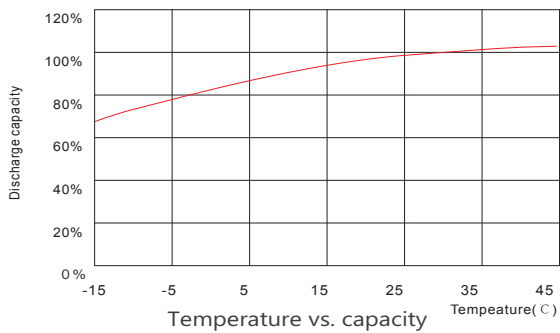
Battery Model	GFM-300			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (30A, 1.80V) 300	5HR (51.3A, 1.80V) 256.5	3HR (75.5A, 1.80V) 227.1	1HR (166A, 1.75V) 166
Dimensions (mm)	Length	Width	Height	Total Height
	172	152	333.5	349
Approx. Weight (kg)	20.5			
Reference Internal Resistance (mΩ)	0.387 ( fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1600			
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: 60A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5610			

## 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	680	521	427	361	283	177	109	80.3	53.8	46.8	37.2	31.1	13.3
1.65	607	472	391	333	265	173	107	79.2	53.1	46.3	36.8	30.8	13.2
1.70	554	429	358	318	247	167	105	78.0	52.5	45.9	36.5	30.6	13.1
1.75	476	394	334	299	238	166	103	76.8	51.9	45.3	36.1	30.4	13.0
1.80	422	359	312	278	228	160	101	75.7	51.3	44.7	35.7	30.0	13.0

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	991	844	705	613	477	312	198	147	99.4	87.4	71.5	59.7	29.6
1.65	893	759	640	559	447	298	191	143	97.7	85.7	70.7	58.7	29.1
1.70	789	689	590	516	418	288	186	140	96.4	84.5	69.8	58.2	28.6
1.75	695	634	544	481	391	275	181	137	94.6	83.5	68.9	57.4	28.1
1.80	644	579	500	443	367	266	176	134	93.0	82.2	68.0	56.8	27.8

## Performance Curve



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