

# GFMJ Series

## GFMJ-2000 2V2000Ah



GFMJ series gel batteries utilize advanced battery manufacturing technology. It has good cyclic and high-low temperature performance, special electrolyte design and good charge acceptance ability. GFMJ can be used in high-low temperature environment with poor grid condition. It is optimal for pure cyclic solar, wind and energy storage systems.

### Benefits

- Very long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC-SiO<sub>2</sub> micro-porous separator ensure Low self-discharge rate
- Easy installation and handling

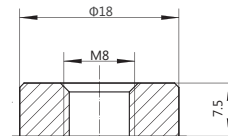
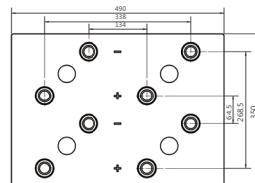
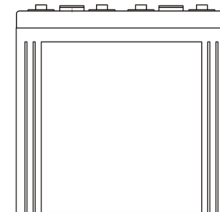
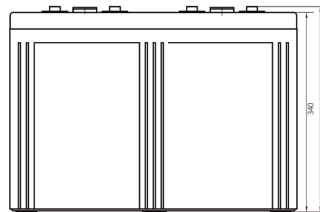
### Applications

- Telecommunications
- Power system
- Energy storage
- UPS
- Emergency power

### Standards

- IEC 60896-21/22
- IEC61427
- DIN43539-T5
- EUROBAT guide

### Drawing



GFM-22

### Specifications

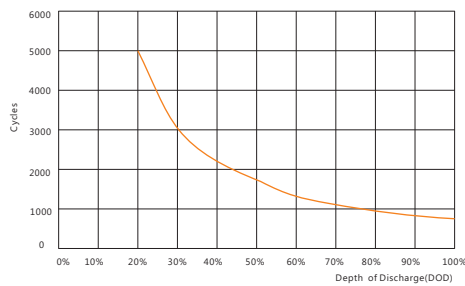
Battery Model	GFMJ-2000			
Design Life (years, 25°C)	18			
Capacity (Ah, 25°C)	10HR (200A, 1.80V)	5HR (350A, 1.80V)	3HR (512A, 1.80V)	1HR(1120A, 1.80V)
	2000	1750	1536	1120
Dimensions (mm)	Length	Width	Height	Total Height
	490	350	340	350
Approx. Weight (kg)	140			
Reference Internal Resistance (mΩ)	0.12 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	11040			
Self-Discharge (25°C)	≤ 2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.33 (-3.5mV/°C/cell), max charge current: 400A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	16000			

## Discharge Data

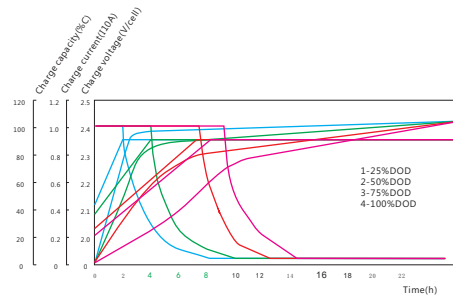
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	3400	3100	2880	2600	2020	1250	750	550	380	340	266	225	113	95.4	48.6	25.0	21.8	11.6
1.70	3200	2950	2600	2270	1900	1230	737	544	371	322	258	213	111	95.0	48.6	25.0	21.8	11.6
1.75	3000	2790	2480	2190	1840	1210	723	536	364	317	253	209	110	94.3	48.6	25.0	21.8	11.6
1.80	2800	2650	2290	2020	1700	1120	694	512	350	305	243	200	108	93.7	48.6	25.0	21.8	11.6
1.85	2400	2290	2090	1890	1590	1080	653	480	329	286	228	189	102	93.0	48.6	25.0	21.8	11.6

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	20	24	48	100	120	240
1.65	5940	5510	5180	4710	3690	2320	1400	1040	720	501	400	330	169	165	97.2	50.0	44.0	23.4
1.70	5690	5340	4750	4180	3510	2300	1390	1040	710	486	385	319	167	163	97.2	50.0	44.0	23.4
1.75	5470	5150	4620	4100	3460	2290	1380	1030	700	469	372	307	165	162	97.2	50.0	44.0	23.4
1.80	5230	4980	4340	3830	3250	2140	1350	990	680	452	358	300	161	159	97.2	50.0	44.0	23.4
1.85	4580	4390	4020	3660	3090	2110	1280	940	650	429	341	283	153	152	97.2	50.0	44.0	23.4

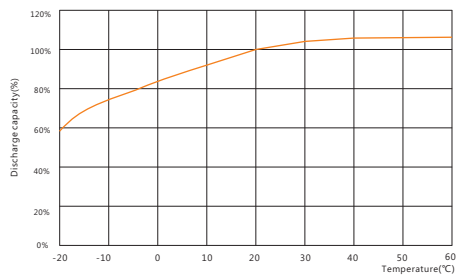
## Performance Curve



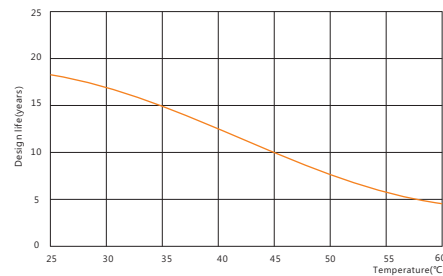
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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