

# GFMJ Series

## 6GFMJ-200 12V200Ah

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

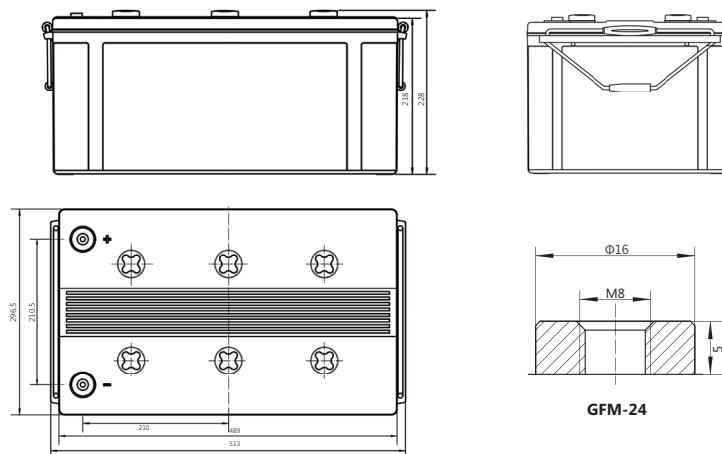
### Applications

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

### Standards

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

### Drawing



### Specifications

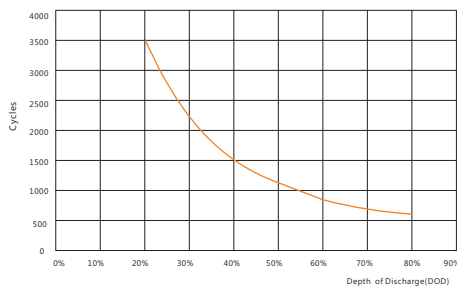
Battery Model	6GFMJ-200			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (20.0A, 1.80V)	5HR (34.0A, 1.80V)	3HR (50.0A, 1.80V)	1HR(110A, 1.80V)
	200	170	150	110
Dimensions (mm)	Length	Width	Height	Total Height
	513	296.5	218	228
Approx. Weight (kg)	82.8			
Reference Internal Resistance (mΩ)	3.2 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1702			
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: 40 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3050			

## Discharge Data

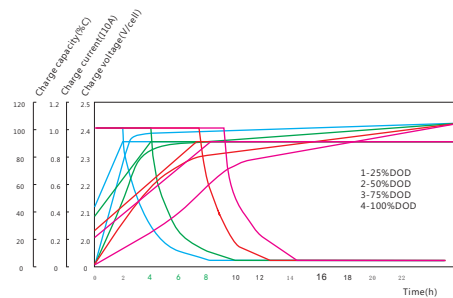
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	559	407	317	266	194	152	115.6	89.8	68.8	52.40	35.00	20.00	10.8	9.24	4.86	2.50	2.18	1.16
1.70	530	393	311	262	192	149	113.4	88.6	68.8	52.40	35.00	20.00	10.8	9.24	4.86	2.50	2.18	1.16
1.75	499	372	305	256	190	145	113.4	87.2	68.8	52.40	35.00	20.00	10.8	9.24	4.86	2.50	2.18	1.16
1.80	462	346	295	246	184	141	111.4	86	68.8	52.40	35.00	20.00	10.8	9.24	4.86	2.50	2.18	1.16
1.85	395	315	276	229	174	136	110.0	83.6	66.8	50.00	34.00	20.00	10.4	8.80	4.86	2.50	2.18	1.16

Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	986	739	580	487	365	274	213.6	166	130	94.20	64.4	38.0	20.4	18.3	9.72	5.00	4.40	2.34
1.70	917	711	567	481	361	272	209.8	164.8	130	94.20	64.4	37.6	20.4	18.3	9.72	5.00	4.40	2.34
1.75	839	672	548	471	356	268	209.8	163.2	130	94.20	64.4	37.6	20.4	18.3	9.72	5.00	4.40	2.34
1.80	773	623	531	453	347	262	206	161.6	130	94.20	64.4	37.2	20.4	18.3	9.72	5.00	4.40	2.34
1.85	719	568	507	425	331	252	203.2	157.8	126.8	91.80	61.0	36.2	19.84	17.6	9.72	5.00	4.40	2.34

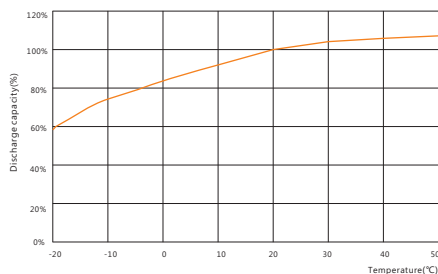
## Performance Curve



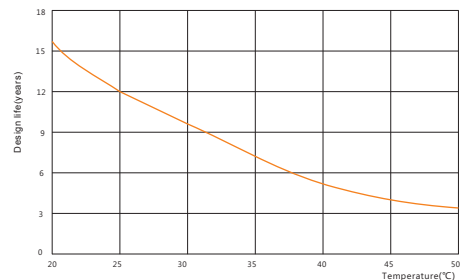
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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