

GFMJ Series

6GFMJ-150 12V150Ah



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-SiO₂ micro-porous separator ensure Low self-discharge rate
- Easy installation and handling

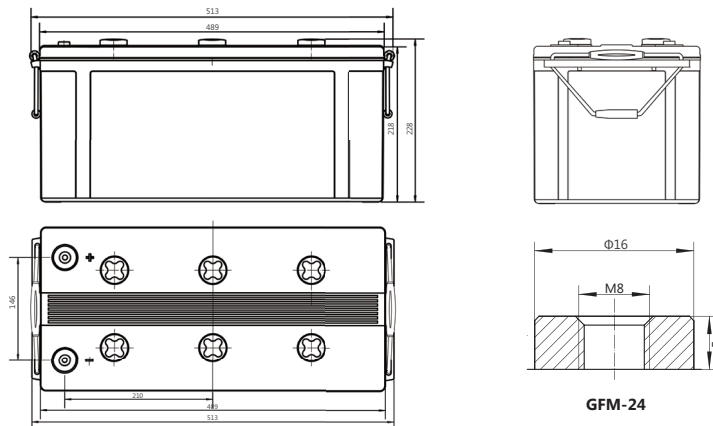
Applications

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

Standards

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

Drawing



Specifications

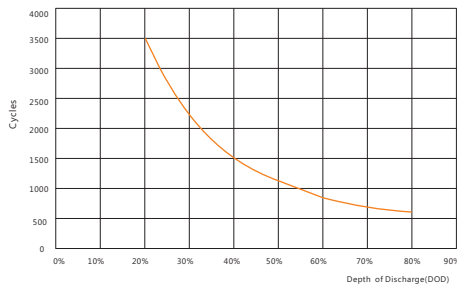
Battery Model	6GFMJ-150			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (15.0A, 1.80V)	5HR (25.5A, 1.80V)	3HR (37.5A, 1.80V)	1HR(82.5A, 1.80V)
	150	127.5	112.5	82.5
Dimensions (mm)	Length	Width	Height	Total Height
	513	232	218	228
Approx. Weight (kg)	63.8			
Reference Internal Resistance (mΩ)	3.65 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1492			
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: 30 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3020			

Discharge Data

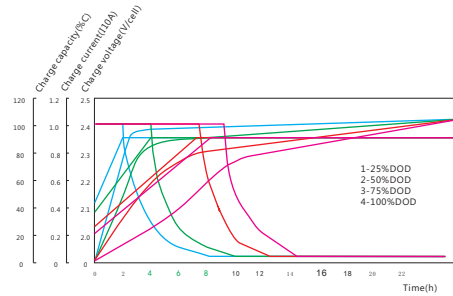
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	419	305	238	200	146	114	86.7	67.4	51.6	39.30	26.25	15.00	8.10	6.93	3.65	1.88	1.64	0.87
1.70	398	295	233	196	144	112	85.1	66.5	51.6	39.30	26.25	15.00	8.10	6.93	3.65	1.88	1.64	0.87
1.75	374	279	229	192	143	109	85.1	65.4	51.6	39.30	26.25	15.00	8.10	6.93	3.65	1.88	1.64	0.87
1.80	347	259	221	184	138	106	83.6	64.5	51.6	39.30	26.25	15.00	8.10	6.93	3.65	1.88	1.64	0.87
1.85	296	236	207	172	131	102	82.5	62.7	50.1	37.50	25.50	15.00	7.80	6.60	3.65	1.88	1.64	0.87

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	740	554	435	365	274	206	160.2	124.5	97.5	70.70	48.30	28.5	15.3	13.73	7.29	3.75	3.30	1.76
1.70	688	534	425	361	271	204	157.4	123.6	97.5	70.65	48.30	28.2	15.3	13.73	7.29	3.75	3.30	1.76
1.75	629	504	411	353	267	201	157.4	122.4	97.5	70.65	48.30	28.2	15.3	13.73	7.29	3.75	3.30	1.76
1.80	580	467	398	340	260	196	154.5	121.2	97.5	70.65	48.30	27.9	15.3	13.73	7.29	3.75	3.30	1.76
1.85	539	426	380	319	248	189	152.4	118.4	95.1	68.85	45.75	27.2	14.9	13.20	7.29	3.75	3.30	1.76

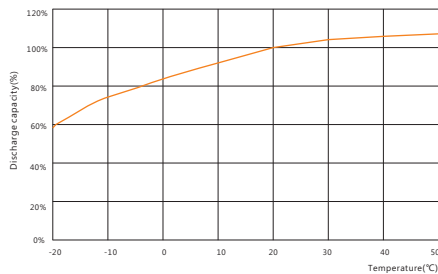
Performance Curve



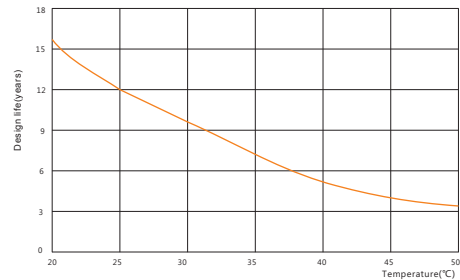
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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