GFMJ Series

6GFMJ-120 12V120Ah

GFMJ series gel batteries utlize 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 efficienc
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC-SiO2 micro-porous separator ensure Low self-discharge rate
- Easy installation and handling

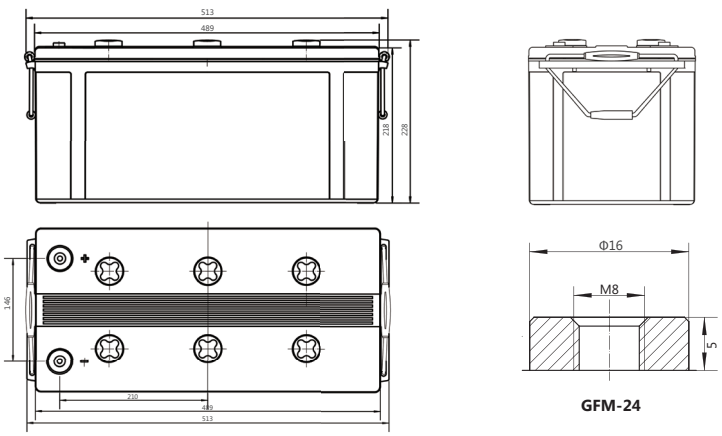
Applications

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

Standards

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

Drawing



GFM-24

Specifications

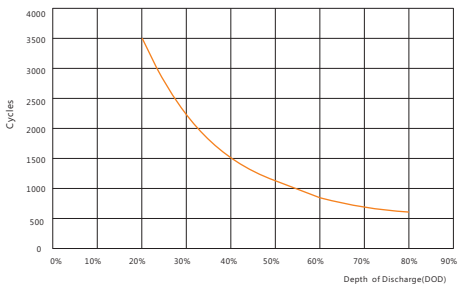
Battery Model	6GFMJ-120			
Design Life (years, 25℃)	12			
Capacity (Ah, 25℃)	10HR (12.0A, 1.80V)	5HR (20.4A, 1.80V)	3HR (30.0A, 1.80V)	1HR(66.0A, 1.80V)
	120	102	90	66
Dimensions (mm)	Length	Width	Height	Total Height
	513	232	218	228
Approx. Weight (kg)	52.3			
Reference Internal Resistance (mΩ)	3.86 (fully charged @ 25℃)			
Maximum Discharge Current (A/3 Sec.)	1196			
Self-Discharge (25℃)	⩽2% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.33 (-3.5mV/℃/cell), max charge current: 24 A		2.22 (-3.5mV/℃/cell)	
Short Circuit Current (A)	2980			

Discharge Data

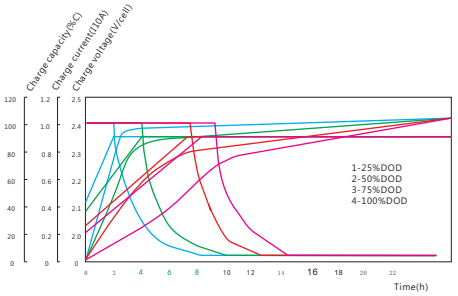
Constant Current Discharge Data (25℃, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	335	244	190	160	117	91	69.4	53.9	41.3	31.40	21.00	12.00	6.48	5.54	2.92	1.50	1.31	0.70
1.70	318	236	187	157	115	90	68.0	53.2	41.3	31.40	21.00	12.00	6.48	5.54	2.92	1.50	1.31	0.70
1.75	300	223	183	154	114	87	68.0	52.3	41.3	31.40	21.00	12.00	6.48	5.54	2.92	1.50	1.31	0.70
1.80	277	208	177	147	111	85	66.8	51.6	41.3	31.40	21.00	12.00	6.48	5.54	2.92	1.50	1.31	0.70
1.85	237	189	166	138	104	81	66.0	50.2	40.1	30.00	20.40	12.00	6.24	5.28	2.92	1.50	1.31	0.70

Constant Power Discharge Data (25℃, 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	592	443	348	292	219	165	128.2	99.6	78	56.50	38.60	22.80	12.2	10.98	5.83	3.00	2.64	1.40
1.70	550	427	340	289	217	163	125.9	98.9	78	56.50	38.60	22.60	12.2	10.98	5.83	3.00	2.64	1.40
1.75	503	403	329	283	214	161	125.9	97.9	78	56.50	38.60	22.60	12.2	10.98	5.83	3.00	2.64	1.40
1.80	503	403	329	283	214	161	125.9	97.9	78	56.50	38.60	22.60	12.2	10.98	5.83	3.00	2.64	1.40
1.85	464	374	319	272	208	157	123.6	97.0	78.0	56.50	38.60	22.30	12.2	10.56	5.83	3.00	2.64	1.40

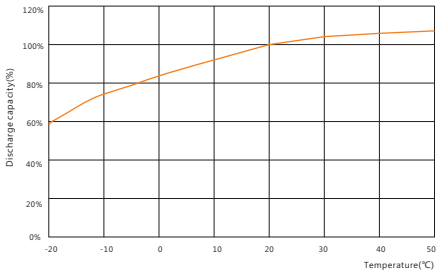
Performance Curve



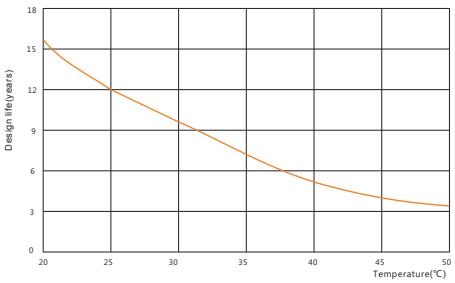
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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