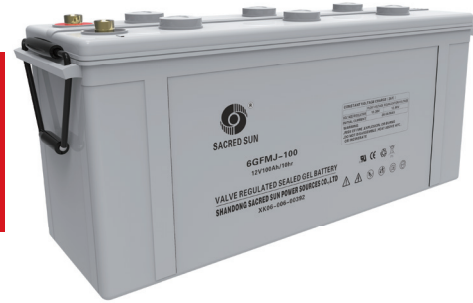


GFMJ Series

6GFMJ-100 12V100Ah



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

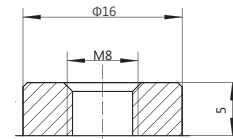
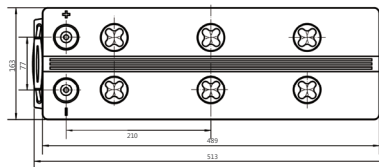
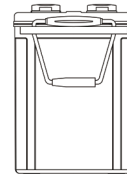
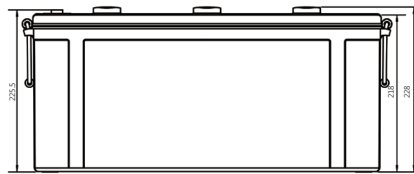
Applications

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

Standards

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

Drawing



GFM-24

Specifications

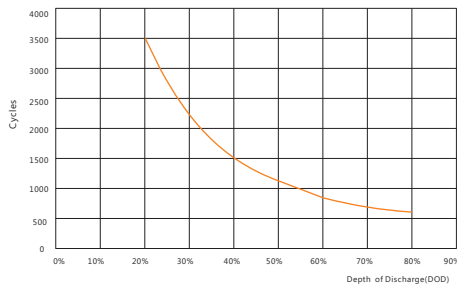
Battery Model	6GFMJ-100			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (10.0A, 1.80V)	5HR (17.0A, 1.80V)	3HR (25.0A, 1.80V)	1HR(55.0A, 1.80V)
	100	85	75	55
Dimensions (mm)	Length	Width	Height	Total Height
	513	163	218	228
Approx. Weight (kg)	44.0			
Reference Internal Resistance (mΩ)	3.91 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1104			
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: 20 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2950			

Discharge Data

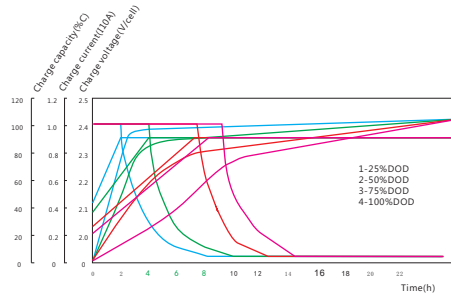
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	279	204	159	133	97	76	57.8	44.9	34.4	26.20	17.50	10.00	5.40	4.62	2.43	1.25	1.09	0.58
1.70	265	196	156	131	96	75	56.7	44.3	34.4	26.20	17.50	10.00	5.40	4.62	2.43	1.25	1.09	0.58
1.75	250	186	152	128	95	72	56.7	43.6	34.4	26.20	17.50	10.00	5.40	4.62	2.43	1.25	1.09	0.58
1.80	231	173	147	123	92	70	55.7	43	34.4	26.20	17.50	10.00	5.40	4.62	2.43	1.25	1.09	0.58
1.85	197	158	138	115	87	68	55.0	41.8	33.4	25.00	17.00	10.00	5.20	4.40	2.43	1.25	1.09	0.58

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	493	369	290	243	182	137	106.8	83	65	47.10	32.20	19.00	10.20	9.15	4.86	2.50	2.20	1.17
1.70	459	356	284	240	181	136	104.9	82.4	65	47.10	32.20	18.80	10.20	9.15	4.86	2.50	2.20	1.17
1.75	419	336	274	236	178	134	104.9	81.6	65	47.10	32.20	18.80	10.20	9.15	4.86	2.50	2.20	1.17
1.80	387	312	266	227	174	131	103	80.8	65	47.10	32.20	18.60	10.20	9.15	4.86	2.50	2.20	1.17
1.85	360	284	254	212	165	126	101.6	78.9	63.4	45.90	30.50	18.10	9.92	8.80	4.86	2.50	2.20	1.17

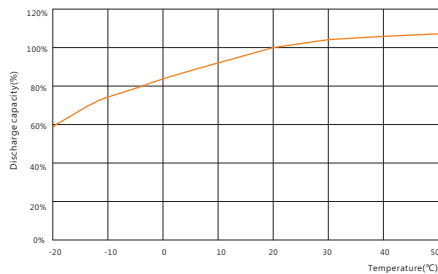
Performance Curve



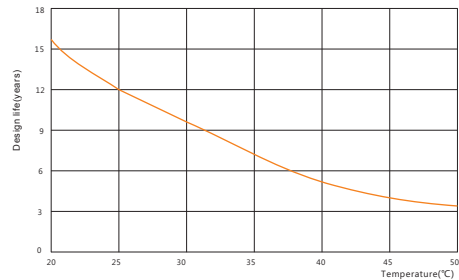
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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