

GFMJ Series

6GFMJ-65 12V65Ah



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

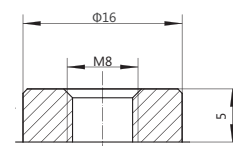
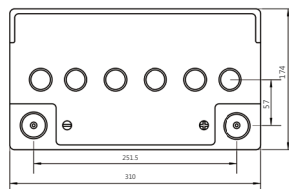
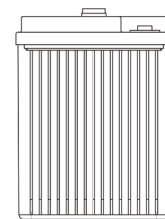
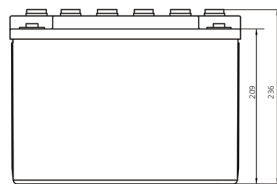
Applications

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

Standards

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

Drawing



GFM-24

Specifications

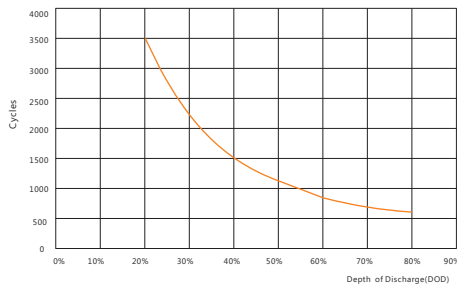
Battery Model	6GFMJ-65			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (6.5A, 1.80V)	5HR (11.1A, 1.80V)	3HR (16.3A, 1.80V)	1HR(35.8A, 1.80V)
	65	55.5	48.9	35.8
Dimensions (mm)	Length	Width	Height	Total Height
	310	174	209	236
Approx. Weight (kg)	30.0			
Reference Internal Resistance (mΩ)	7.35 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	833			
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: 13 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1540			

Discharge Data

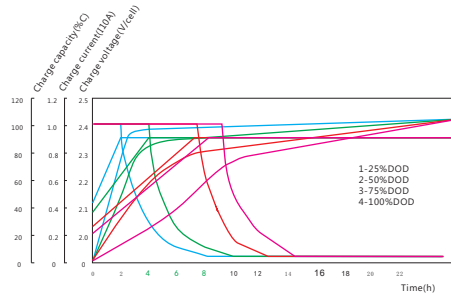
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	182	132	103	87	63	50	37.6	29.2	22.4	17.00	11.40	6.50	3.51	3.00	1.58	0.81	0.71	0.38
1.70	172	128	101	85	63	49	36.9	28.8	22.4	17.00	11.40	6.50	3.51	3.00	1.58	0.81	0.71	0.38
1.75	162	121	99	83	62	47	36.9	28.3	22.4	17.00	11.40	6.50	3.51	3.00	1.58	0.81	0.71	0.38
1.80	150	112	96	80	60	46	36.2	28	22.4	17.00	11.40	6.50	3.51	3.00	1.58	0.81	0.71	0.38
1.85	128	102	90	75	57	44	35.8	27.2	21.7	16.30	11.10	6.50	3.38	2.86	1.58	0.81	0.71	0.38

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	321	240	188	158	119	89	69.4	54	42.3	30.60	20.90	12.40	6.60	5.95	3.16	1.63	1.43	0.76
1.70	298	231	184	156	118	88	68.2	53.6	42.3	30.60	20.90	12.20	6.60	5.95	3.16	1.63	1.43	0.76
1.75	273	219	178	153	116	87	68.2	53	42.3	30.60	20.90	12.20	6.60	5.95	3.16	1.63	1.43	0.76
1.80	251	203	173	147	113	85	67	52.5	42.3	30.60	20.90	12.10	6.60	5.95	3.16	1.63	1.43	0.76
1.85	234	185	165	138	108	82	66.0	51.3	41.2	29.80	19.80	11.80	6.40	5.72	3.16	1.63	1.43	0.76

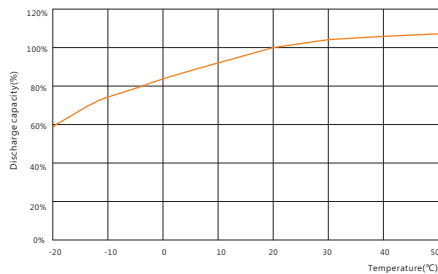
Performance Curve



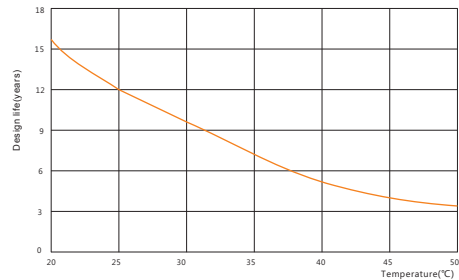
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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