

# 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.

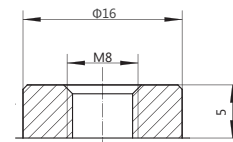
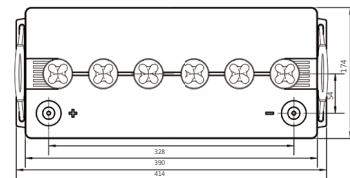
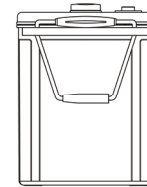
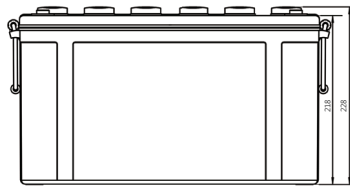
### Benefits

- 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-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

### Drawing



GFM-24

### Standards

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

### Specifications

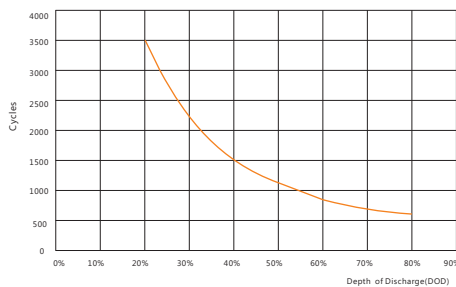
Battery Model	6GFMJ-85			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (8.5A, 1.80V)	5HR (14.5A, 1.80V)	3HR (21.3A, 1.80V)	1HR(46.8A, 1.80V)
	85	72.5	63.9	46.8
Dimensions (mm)	Length	Width	Height	Total Height
	414	174	218	228
Approx. Weight (kg)	37.0			
Reference Internal Resistance (mΩ)	5.85 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1012			
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: 17 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2060			

## Discharge Data

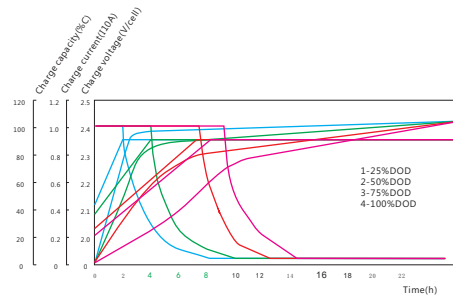
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	237	173	135	113	83	65	49.1	38.2	29.2	22.30	14.90	8.50	4.59	3.93	2.07	1.06	0.93	0.49
1.70	225	167	132	111	82	64	48.2	37.7	29.2	22.30	14.90	8.50	4.59	3.93	2.07	1.06	0.93	0.49
1.75	212	158	130	109	81	62	48.2	37.1	29.2	22.30	14.90	8.50	4.59	3.93	2.07	1.06	0.93	0.49
1.80	197	147	125	104	78	60	47.3	36.6	29.2	22.30	14.90	8.50	4.59	3.93	2.07	1.06	0.93	0.49
1.85	168	134	117	97	74	58	46.8	35.5	28.4	21.30	14.50	8.50	4.42	3.74	2.07	1.06	0.93	0.49

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	419	314	246	207	155	117	90.8	70.6	55.3	40.00	27.40	16.20	8.70	7.78	4.13	2.13	1.87	0.99
1.70	390	302	241	204	154	116	89.2	70	55.3	40.00	27.40	16.00	8.70	7.78	4.13	2.13	1.87	0.99
1.75	356	286	233	200	152	114	89.2	69.4	55.3	40.00	27.40	16.00	8.70	7.78	4.13	2.13	1.87	0.99
1.80	329	265	226	193	148	111	87.6	68.7	55.3	40.00	27.40	15.80	8.70	7.78	4.13	2.13	1.87	0.99
1.85	306	241	216	181	141	107	86.4	67.1	53.9	39.00	25.90	15.40	8.40	7.48	4.13	2.13	1.87	0.99

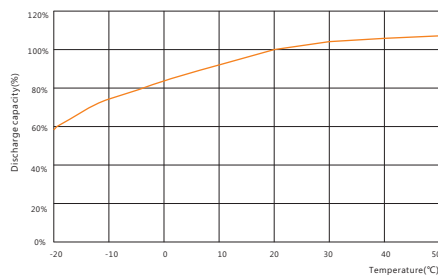
## Performance Curve



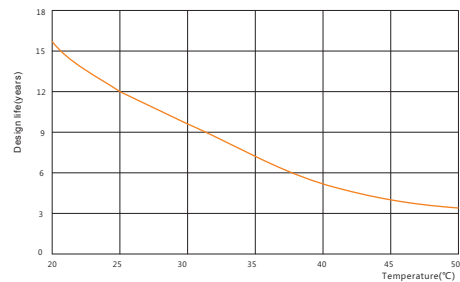
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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