

# FMJ Series

## 6FMJ-65 12V65Ah

FMJ series gel batteries utilize advanced battery technology. FMJ has good cyclic performance and high reliability. It is the economical choice for solar photovoltaic street lights, garden and lawn lamps, traffic lights, warning lights and other energy storage systems.



### Benefits

- 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 or PF micro-porous separator ensure low self-discharge rate
- Easy installation and handling

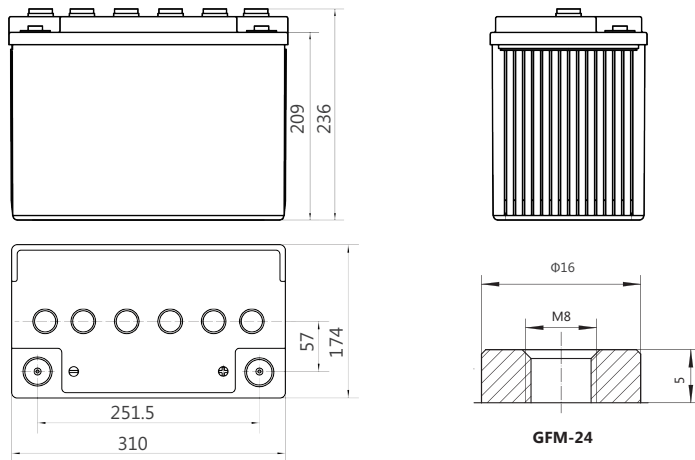
### Applications

- Telecommunications
- Emergency power
- Energy storage systems
- UPS units
- Electrical Power plants and substation

### Standards

- IEC 60896-21/22
- IEC 61427
- DIN 43539-T5
- EUROBAT guide

### Drawing



### Specifications

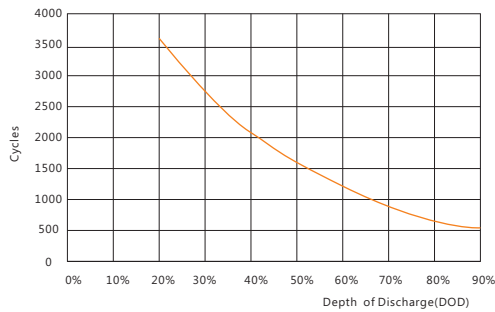
Battery Model	6FMJ-65			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (6.5A, 1.80V)	5HR (11.05A, 1.80V)	3HR (16.25A, 1.80V)	1HR(34.99A, 1.80V)
	65	55.25	48.75	34.99
Dimensions (mm)	Length	Width	Height	Total Height
	310	174	209	236
Approx. Weight (kg)	27.0			
Reference Internal Resistance (mΩ)	7.25 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	828			
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: 13A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1540			

## Discharge Data

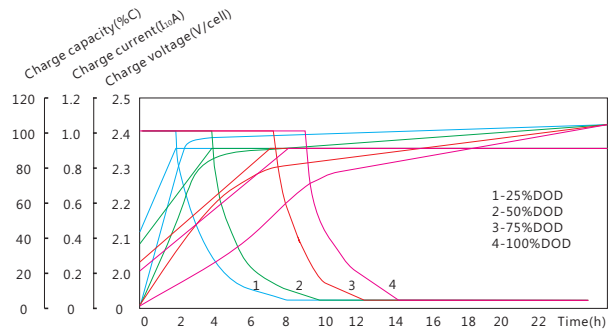
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min			h														
	15	30	45	1	1.5	2	3	4	5	6	8	10	20	24	48	100	120	240
1.60	101.4	64.97	45.34	38.32	29.19	22.79	17.78	14.24	12.10	11.02	8.541	7.118	3.666	3.094	1.541	0.741	0.709	0.371
1.65	98.35	63.67	44.43	37.56	28.61	22.33	17.43	13.95	11.86	10.81	8.372	6.975	3.588	3.036	1.508	0.735	0.702	0.364
1.70	95.36	62.40	43.55	36.81	28.03	21.91	17.06	13.67	11.62	10.60	8.203	6.832	3.517	2.977	1.489	0.728	0.696	0.358
1.75	92.56	61.15	42.61	36.08	27.47	21.45	16.72	13.40	11.38	10.38	8.041	6.695	3.452	2.919	1.463	0.722	0.689	0.351
1.80	87.95	59.31	41.40	34.99	26.65	20.81	16.25	13.00	11.05	10.08	7.800	6.500	3.380	2.860	1.443	0.715	0.683	0.345

Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min			h														
	15	30	45	1	1.5	2	3	4	5	6	8	10	20	24	48	100	120	240
1.60	176	114	79.35	67.45	51.37	40.11	31.83	25.91	22.15	20.06	15.72	13.24	7.039	6.002	3.019	1.475	1.417	0.748
1.65	173	113	78.65	66.85	51.21	39.98	31.73	25.67	21.93	20.00	15.57	13.18	6.961	5.950	2.986	1.469	1.411	0.739
1.70	170	112	77.95	66.26	50.74	39.87	31.40	25.29	21.73	19.92	15.50	13.12	6.892	5.924	2.962	1.463	1.405	0.729
1.75	168	111	77.56	65.66	50.54	39.68	31.10	25.06	21.50	19.83	15.44	13.06	6.799	5.837	2.925	1.457	1.399	0.720
1.80	164	110	76.59	65.08	50.10	39.53	30.88	24.83	21.33	19.65	15.29	12.87	6.760	5.749	2.900	1.451	1.392	0.710

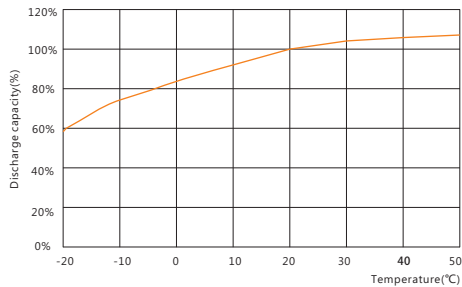
## Performance Curve



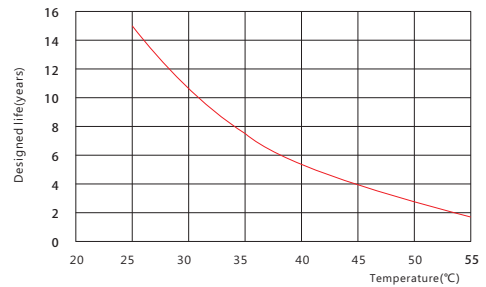
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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