

# FMJ Series

## 6FMJ-50 12V50Ah

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

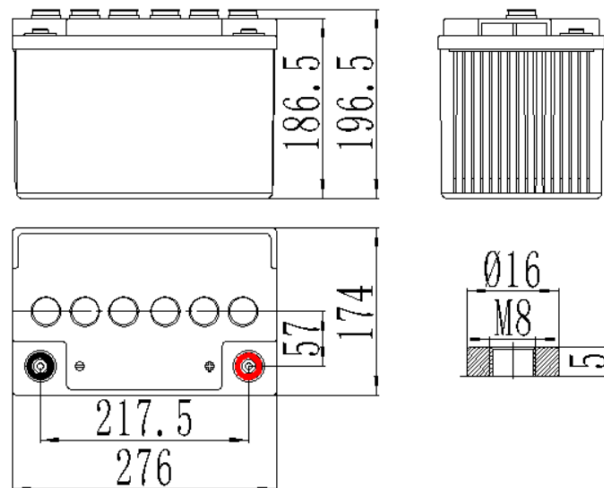
### Applications

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

### Standards

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

### Drawing



### Specifications

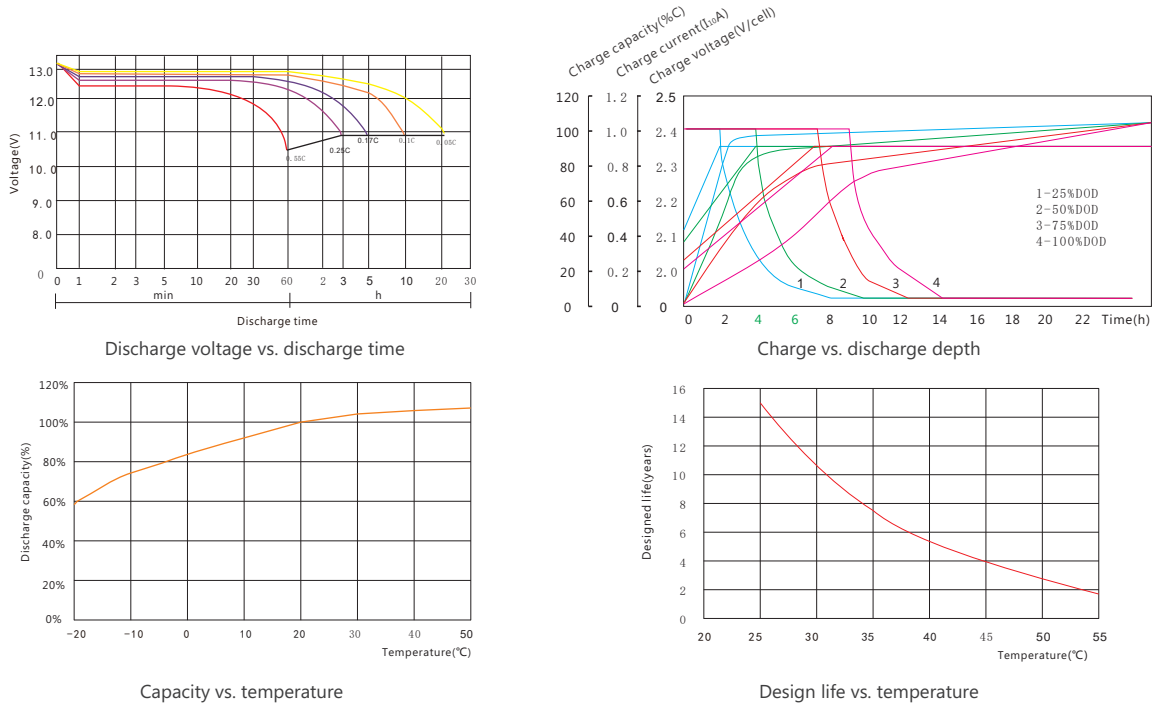
Battery Model	6FMJ-50			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (5.0A, 1.80V)	5HR (8.5A, 1.80V)	3HR (12.5A, 1.80V)	1HR(26.92A, 1.80V)
	50	42.5	37.5	26.92
Dimensions (mm)	Length	Width	Height	Total Height
	276	174	186.5	196.5
Approx. Weight (kg)	20.5			
Reference Internal Resistance (mΩ)	7.64 ±15% ( full charged @ 25 °C, testing device:HIOKI BT3562)			
Maximum Discharge Current (A/3 Sec.)	718			
Self-Discharge (25°C)	< 3 % per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.33 (-3.5mV/°C/cell), max charge current: 10 A		2.23 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1330			

## 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	78.00	49.98	34.88	29.48	22.45	17.53	13.68	10.95	9.310	8.480	6.570	5.475	2.820	2.380	1.185	0.570	0.545	0.285
1.65	75.65	48.98	34.18	28.89	22.01	17.18	13.41	10.73	9.120	8.315	6.440	5.365	2.760	2.335	1.160	0.565	0.540	0.280
1.70	73.35	48.00	33.50	28.32	21.57	16.85	13.13	10.52	8.940	8.150	6.310	5.255	2.705	2.290	1.145	0.560	0.535	0.275
1.75	71.20	47.04	32.78	27.75	21.13	16.50	12.86	10.31	8.750	7.985	6.185	5.150	2.655	2.245	1.125	0.555	0.530	0.270
1.80	67.65	45.63	31.85	26.92	20.50	16.01	12.50	10.00	8.500	7.750	6.000	5.000	2.600	2.200	1.110	0.550	0.525	0.265

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	136	87.46	61.04	51.88	39.51	30.85	24.49	19.93	17.04	15.43	12.09	10.18	5.414	4.617	2.323	1.134	1.090	0.576
1.65	133	86.69	60.50	51.42	39.39	30.75	24.41	19.74	16.87	15.38	11.98	10.14	5.354	4.577	2.297	1.130	1.085	0.568
1.70	131	85.92	59.97	50.97	39.03	30.67	24.15	19.45	16.72	15.32	11.93	10.09	5.302	4.557	2.279	1.126	1.081	0.561
1.75	129	85.61	59.66	50.51	38.88	30.53	23.92	19.28	16.54	15.25	11.88	10.04	5.230	4.490	2.250	1.121	1.076	0.554
1.80	126	84.41	58.91	50.06	38.54	30.41	23.75	19.10	16.41	15.11	11.76	9.900	5.200	4.422	2.231	1.117	1.071	0.546

## Performance Curve



### Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC  
Tel: +86-537-4422313 Fax: +86-537-4411980  
Email: sales@sacredsun.cn

### Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong  
Email: admin.hk@sacredsun.hk

### Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555  
Email: admin.sg@sacredsun.sg

### Sacred Sun Europe SARL

Add: ZAE Fontaine, 33210 Fargues, France  
Email: admin.eu@sacredsun.eu

### Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE  
Email: admin.ae@sacredsun.ae

