

FMJ Series

6FMJ-33 12V33Ah

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

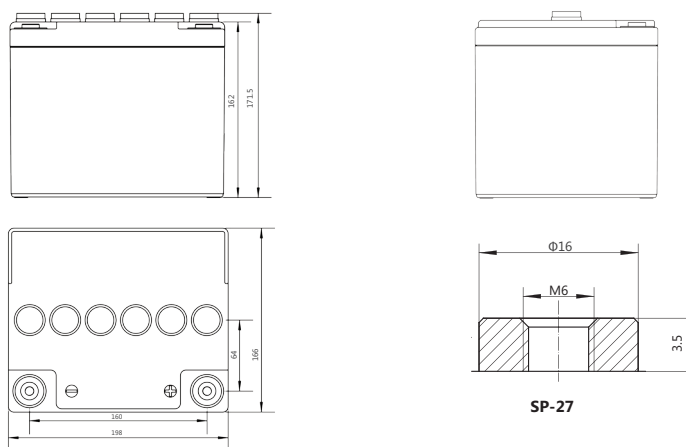
Applications

- 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

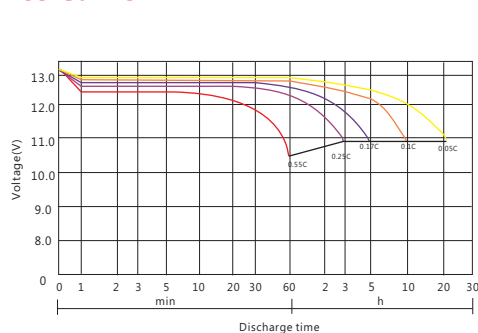
Battery Model	6FMJ-33			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (3.3A, 1.80V)	5HR (5.61A, 1.80V)	3HR (8.25A, 1.80V)	1HR(17.76A, 1.80V)
	33	28.05	24.75	17.76
Dimensions (mm)	Length	Width	Height	Total Height
	198	166	162	171.5
Approx. Weight (kg)	14.0			
Reference Internal Resistance (mΩ)	8.5±15% (full charged @ 25 ℃,testing device:HIOKI BT3562)			
Maximum Discharge Current (A/3 Sec.)	506			
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: 6.6 A		2.23 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1200			

Discharge Data

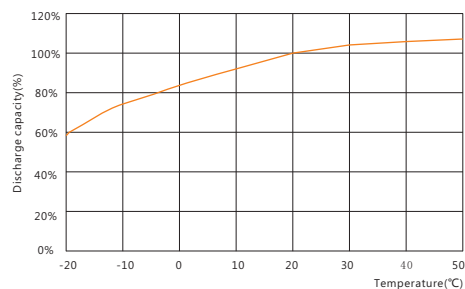
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min			h														
	15	30	45	1	1.5	2	3	4	5	6	8	10	20	24	48	100	120	240
1.60	51.48	32.98	23.02	19.46	14.82	11.57	9.029	7.227	6.145	5.597	4.336	3.614	1.861	1.571	0.782	0.376	0.360	0.188
1.65	49.93	32.32	22.56	19.07	14.52	11.34	8.851	7.082	6.019	5.488	4.250	3.541	1.822	1.541	0.766	0.373	0.356	0.185
1.70	48.41	31.68	22.11	18.69	14.23	11.12	8.663	6.940	5.900	5.379	4.165	3.468	1.785	1.511	0.756	0.370	0.353	0.182
1.75	46.99	31.05	21.63	18.32	13.95	10.89	8.488	6.805	5.775	5.270	4.082	3.399	1.752	1.482	0.743	0.366	0.350	0.178
1.80	44.65	30.11	21.02	17.76	13.53	10.56	8.250	6.600	5.610	5.115	3.960	3.300	1.716	1.452	0.733	0.363	0.347	0.175

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	89.58	57.72	40.29	34.24	26.08	20.36	16.16	13.15	11.24	10.19	7.979	6.721	3.574	3.047	1.533	0.749	0.719	0.380
1.65	87.88	57.21	39.93	33.94	26.00	20.30	16.11	13.03	11.14	10.15	7.906	6.692	3.534	3.021	1.516	0.746	0.716	0.375
1.70	86.17	56.71	39.58	33.64	25.76	20.24	15.94	12.84	11.03	10.11	7.871	6.659	3.499	3.008	1.504	0.743	0.713	0.370
1.75	85.06	56.50	39.38	33.33	25.66	20.15	15.79	12.72	10.91	10.07	7.838	6.628	3.452	2.963	1.485	0.740	0.710	0.365
1.80	83.05	55.71	38.88	33.04	25.44	20.07	15.68	12.61	10.83	9.97	7.762	6.534	3.432	2.919	1.473	0.737	0.707	0.360

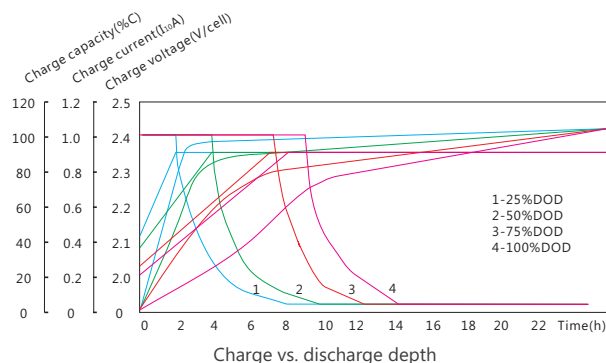
Performance Curve



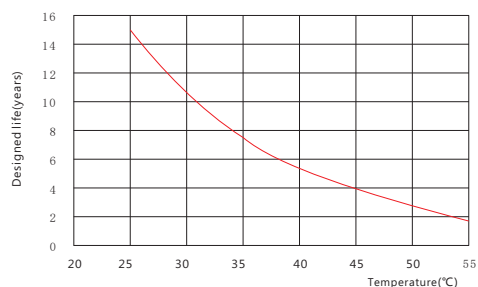
Discharge voltage vs. discharge time



Capacity vs. temperature



Charge vs. discharge depth



Design life vs. temperature

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