

FMJ Series

6FMJ-150 12V150Ah

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

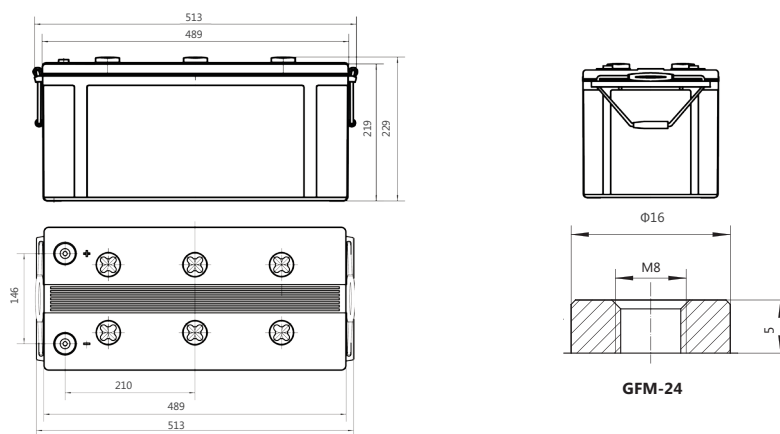
Applications

- 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

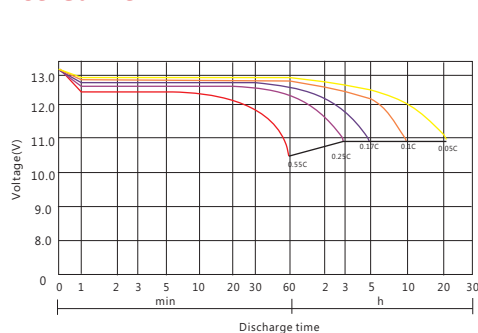
Battery Model	6FMJ-150			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (15A, 1.80V)	5HR (25.5A, 1.80V)	3HR (37.5A, 1.80V)	1HR(80.7A, 1.80V)
	150	127.5	112.5	80.7
Dimensions (mm)	Length	Width	Height	Total Height
	513	232	219	229
Approx. Weight (kg)	59.0			
Reference Internal Resistance (mΩ)	3.55±15% (full charged @ 25 °C ,testing device:HIOKI BT3562)			
Maximum Discharge Current (A/3 Sec.)	1472			
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: 30A		2.23 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2870			

Discharge Data

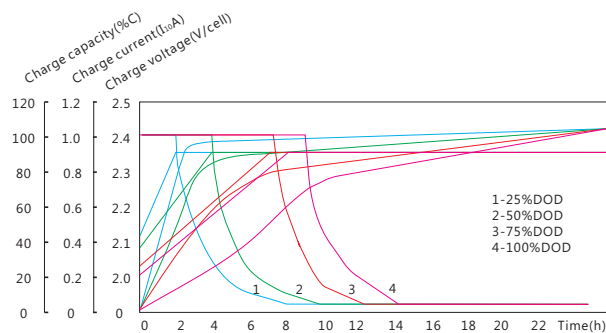
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min			h														
	15	30	45	1	1.5	2	3	4	5	6	8	10	20	24	48	100	120	240
1.60	234	150	105	88.4	67.4	52.6	41.0	32.9	27.9	25.4	19.7	16.4	8.46	7.14	3.56	1.71	1.64	0.86
1.65	227	147	103	86.7	66.0	51.5	40.2	32.2	27.4	24.9	19.3	16.1	8.28	7.01	3.48	1.70	1.62	0.84
1.70	220	144	101	84.9	64.7	50.6	39.4	31.5	26.8	24.5	18.9	15.8	8.12	6.87	3.44	1.68	1.61	0.83
1.75	214	141	98.3	83.3	63.4	49.5	38.6	30.9	26.3	24.0	18.6	15.5	7.97	6.74	3.38	1.67	1.59	0.81
1.80	203	137	95.5	80.7	61.5	48.0	37.5	30.0	25.5	23.3	18.0	15.0	7.80	6.60	3.33	1.65	1.58	0.80

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	407	262	183	156	119	92.6	73.5	59.8	51.1	46.3	36.3	30.6	16.2	13.9	6.97	3.40	3.27	1.73
1.65	399	260	181	154	118	92.3	73.2	59.2	50.6	46.1	35.9	30.4	16.1	13.7	6.89	3.39	3.26	1.71
1.70	392	258	180	153	117	92.0	72.5	58.4	50.2	46.0	35.8	30.3	15.9	13.7	6.84	3.38	3.24	1.68
1.75	387	257	179	152	117	91.6	71.8	57.8	49.6	45.8	35.6	30.1	15.7	13.5	6.75	3.36	3.23	1.66
1.80	377	253	177	150	116	91.2	71.3	57.3	49.2	45.3	35.3	29.7	15.6	13.3	6.69	3.35	3.21	1.64

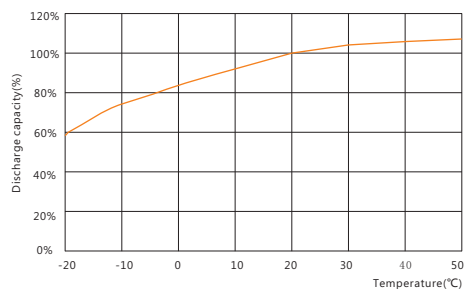
Performance Curve



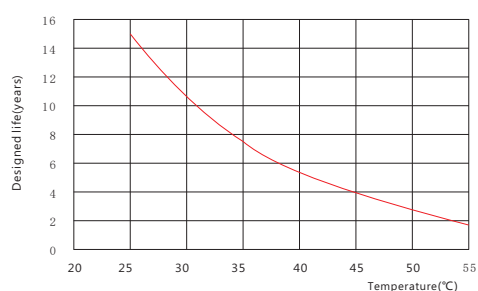
Discharge voltage vs. discharge time



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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