

FMJ Series

6FMJ-200 12V200Ah

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-SiO₂ micro-porous separator ensure low self-discharge rate
- Easy installation and handling

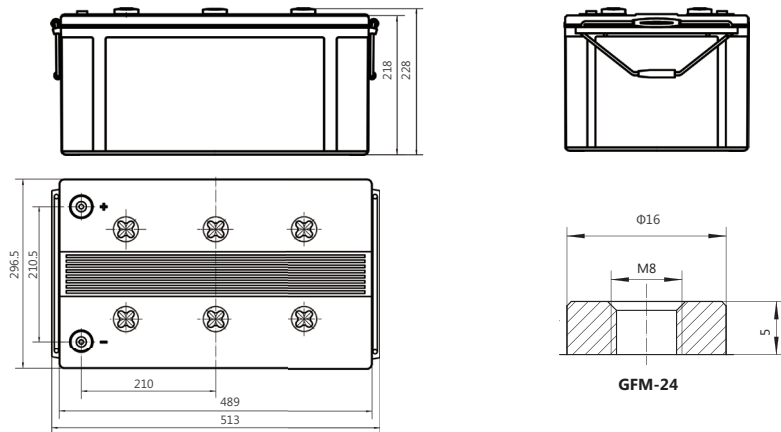
Applications

- 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

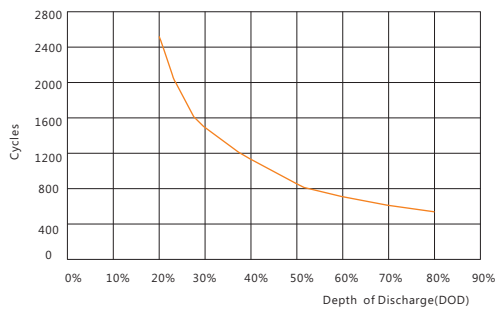
Battery Model	6FMJ-200			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	10HR (20A, 1.80V)	5HR (34A, 1.80V)	3HR (50A, 1.80V)	1HR(100A, 1.80V)
	200	170	150	100
Dimensions (mm)	Length	Width	Height	Total Height
	513	296.5	218	228
Approx. Weight (kg)	75.5			
Reference Internal Resistance (mΩ)	3.11 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1702			
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: 30A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3050			

Discharge Data

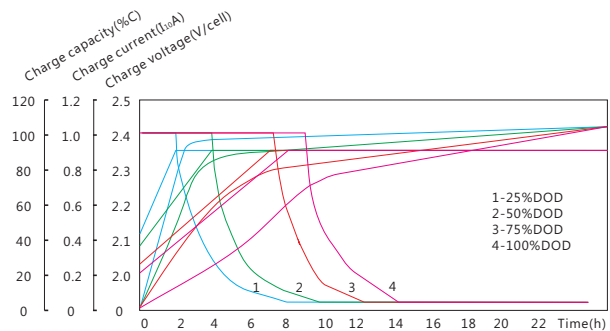
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.60	547.4	399.1	310.9	260.7	190.5	137	107	88	67.4	51.4	34.3	20	10.6	9.06	4.76	2.45	2.14	1.14
1.65	519.4	384.9	304.8	256.6	188.6	135	106	86.8	67.4	51.4	34.3	20	10.6	9.06	4.76	2.45	2.14	1.14
1.70	489.2	365	298.7	250.7	186.4	134	104	85.5	67.4	51.4	34.3	20	10.6	9.06	4.76	2.45	2.14	1.14
1.75	453.2	338.9	288.7	240.7	180.5	132	103	84.3	67.4	51.4	34.3	20	10.6	9.06	4.76	2.45	2.14	1.14
1.80	394.8	315	276.2	229.2	174	132	100	83.6	66.8	50.0	34	20	10.4	8.8	4.86	2.5	2.18	1.16

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
1.60	986	738.6	579.8	486.6	364.6	274.2	213.6	166	130	94.2	64.4	38	20.4	18.3	9.72	5	4.4	2.34
1.65	917.2	711.4	567	480.8	361.4	271.8	209.8	165	130	94.2	64.4	37.6	20.4	18.3	9.72	5	4.4	2.34
1.70	838.6	672.2	548	471	356.4	268	209.8	163	130	94.2	64.4	37.6	20.4	18.3	9.72	5	4.4	2.34
1.75	773	623	531	453.2	347.2	261.8	206	162	130	94.2	64.4	37.2	20.4	18.3	9.72	5	4.4	2.34
1.80	719.2	568	507	424.6	330.8	252.4	203.2	158	127	91.8	61	36.2	19.8	17.6	9.72	5	4.4	2.34

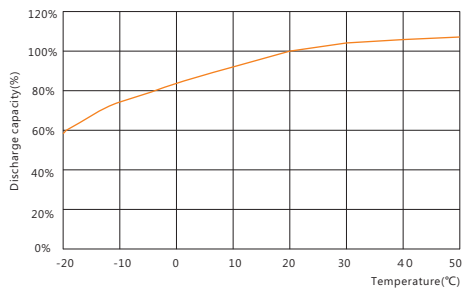
Performance Curve



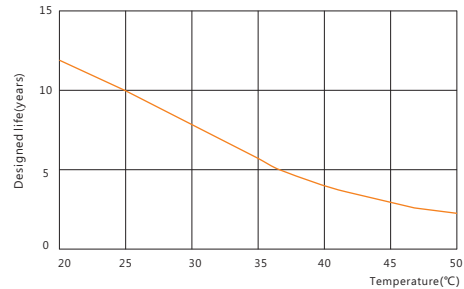
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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