

GFMJ Series

6GFMJ-33 12V33Ah

GFMJ series gel batteries utilize advanced battery manufacturing technology. It has good cyclic and high-low temperature performance, special electrolyte design and good charge acceptance ability. GFMJ can be used in high-low temperature environment with poor grid condition. It is optimal for pure cyclic solar, wind and energy storage systems.



Benefits

- Very 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

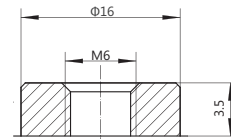
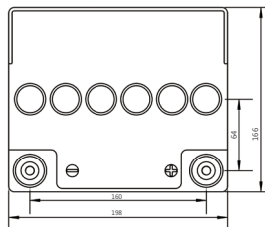
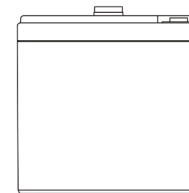
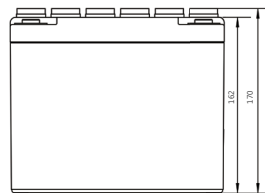
Applications

- Telecommunications
- Power system
- Energy storage
- UPS
- Emergency power

Standards

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

Drawing



SP-27

Specifications

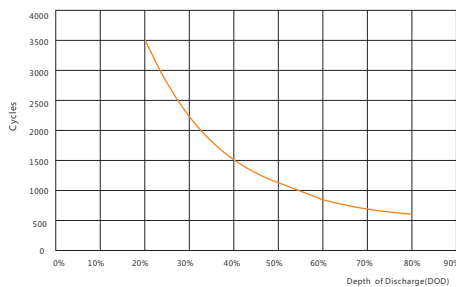
Battery Model	6GFMJ-33			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (3.3A, 1.80V)	5HR (5.6A, 1.80V)	3HR (8.3A, 1.80V)	1HR(18.2A, 1.80V)
	33	28	24.9	18.2
Dimensions (mm)	Length	Width	Height	Total Height
	198	166	170	170
Approx. Weight (kg)	14.0			
Reference Internal Resistance (mΩ)	8.5 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	506			
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: 6.6 A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1010			

Discharge Data

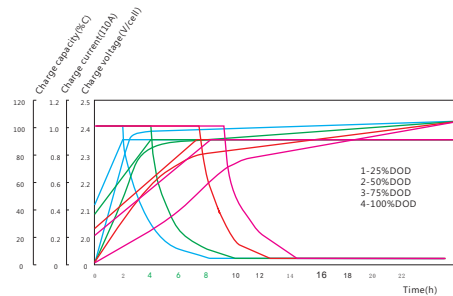
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min						h											
	5	10	15	20	30	45	1	1.5	2	3	5	10	20	24	48	100	120	240
1.65	92	67	52	44	32	25	19.1	14.8	11.4	8.60	5.80	3.30	1.78	1.52	0.80	0.41	0.36	0.19
1.70	88	65	51	43	32	25	18.7	14.6	11.4	8.60	5.80	3.30	1.78	1.52	0.80	0.41	0.36	0.19
1.75	82	61	50	42	31	24	18.7	14.4	11.4	8.60	5.80	3.30	1.78	1.52	0.80	0.41	0.36	0.19
1.80	76	57	49	41	30	23	18.4	14.2	11.4	8.60	5.80	3.30	1.78	1.52	0.80	0.41	0.36	0.19
1.85	65	52	46	38	29	22	18.2	13.8	11.0	8.30	5.65	3.30	1.72	1.45	0.80	0.41	0.36	0.19

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
1.65	163	122	96	80	60	45	35.2	27.4	21.5	15.50	10.60	6.30	3.40	3.02	1.60	0.83	0.73	0.39
1.70	151	117	94	79	60	45	34.6	27.2	21.5	15.50	10.60	6.20	3.40	3.02	1.60	0.83	0.73	0.39
1.75	138	111	90	78	59	44	34.6	26.9	21.5	15.50	10.60	6.20	3.40	3.02	1.60	0.83	0.73	0.39
1.80	128	103	88	75	57	43	34	26.7	21.5	15.50	10.60	6.10	3.40	3.02	1.60	0.83	0.73	0.39
1.85	119	94	84	70	55	42	33.5	26.0	20.9	15.10	10.10	6.00	3.30	2.90	1.60	0.83	0.73	0.39

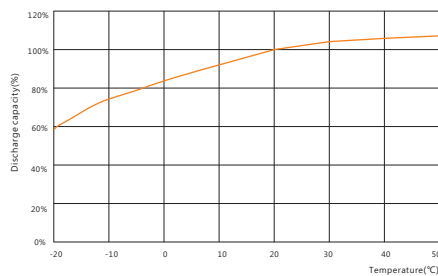
Performance Curve



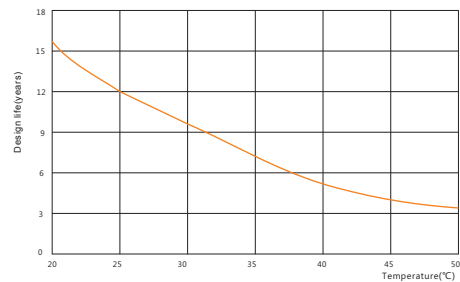
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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