

GFMJ Series

GFMJ-600 2V600Ah

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.



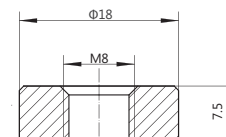
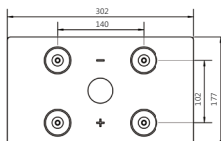
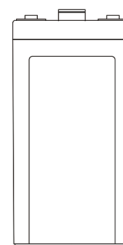
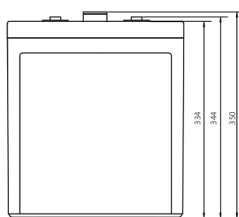
Benefits

- 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

Drawing



GFM-22

Standards

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

Specifications

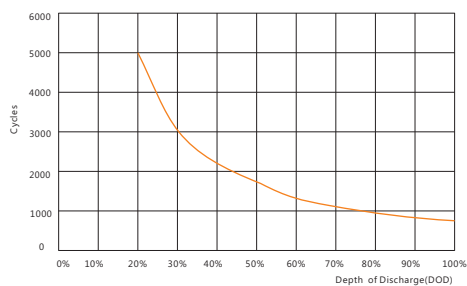
Battery Model	GFMJ-600			
Design Life (years, 25°C)	18			
Capacity (Ah, 25°C)	10HR (60.0A, 1.80V)	5HR (105A, 1.80V)	3HR (154A, 1.80V)	1HR(336A, 1.80V)
	600	525	462	336
Dimensions (mm)	Length	Width	Height	Total Height
	302	177	334	344
Approx. Weight (kg)	44.0			
Reference Internal Resistance (mΩ)	0.33 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	3312			
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: 120A		2.22 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5860			

Discharge Data

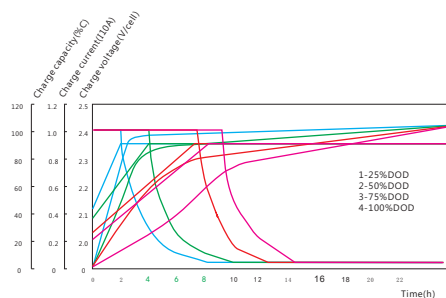
Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	1020	930	864	780	606	375	225	165	114	102.	79.8	67.5	33.9	27.72	14.58	7.50	6.54	3.48
1.70	960	885	780	681	570	369	221.1	163	111	96.6	77.4	63.9	33.3	27.72	14.58	7.50	6.54	3.48
1.75	900	837	744	657	552	363	216.9	161	109	95.1	75.9	62.7	33.0	27.72	14.58	7.50	6.54	3.48
1.80	840	795	687	606	510	336	208.2	154	105	91.5	72.9	60.0	32.4	27.72	14.58	7.50	6.54	3.48
1.85	720	687	627	567	477	324	195.9	144	98.7	85.8	68.4	56.7	30.6	26.40	14.58	7.50	6.54	3.48

Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	1782	1653	1554	1413	1107	696	420	312	216	150	120	99.0	50.7	48.7	29.2	15.0	13.2	7.02
1.70	1707	1602	1425	1254	1053	690	417	312	213	146	116	95.7	50.1	48.1	29.2	15.0	13.2	7.02
1.75	1641	1545	1386	1230	1038	687	414	309	210	141	112	92.1	49.5	47.5	29.2	15.0	13.2	7.02
1.80	1569	1494	1302	1149	975	642	405	297	204	136	107	90.0	48.3	46.5	29.2	15.0	13.2	7.02
1.85	1374	1317	1206	1098	927	633	384	282	195	129	102	84.9	45.9	44.5	29.2	15.0	13.2	7.02

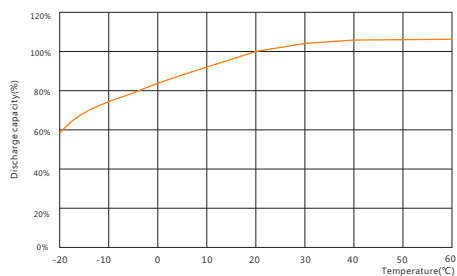
Performance Curve



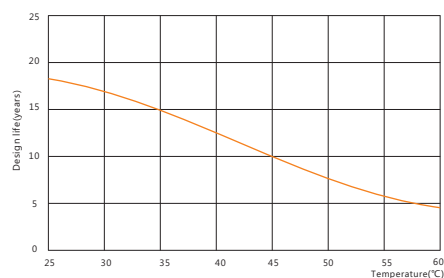
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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