

Advantages

- Very long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal installation

Application

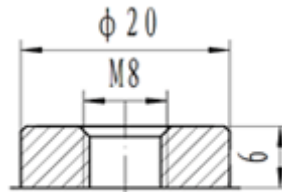
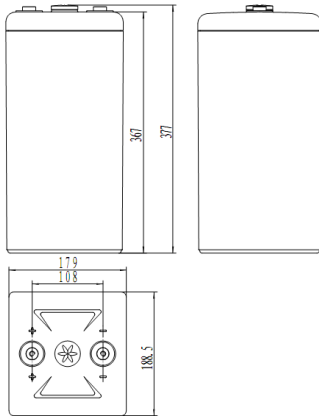
- Solar (Wind) energy system
- Solar communication/station
- Mobile storage system

Standards

- IEC 61427-2005
- JIS C8704-1/2:2006
- Eurobat guide
- Installation compliant with EN50272-2



Drawing



GFM-21

Specification

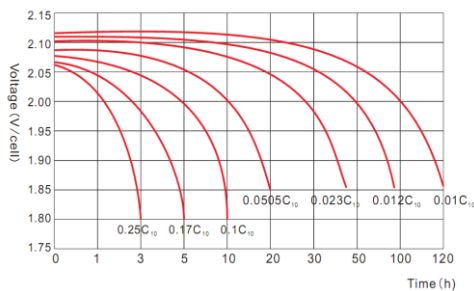
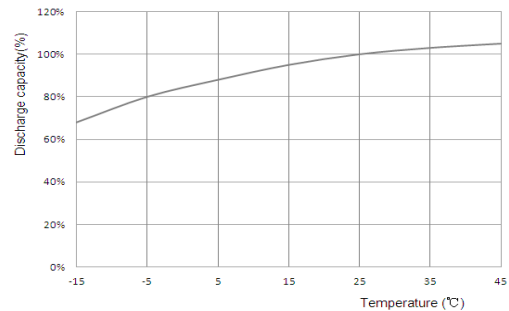
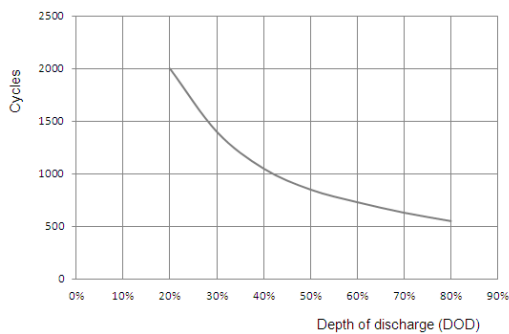
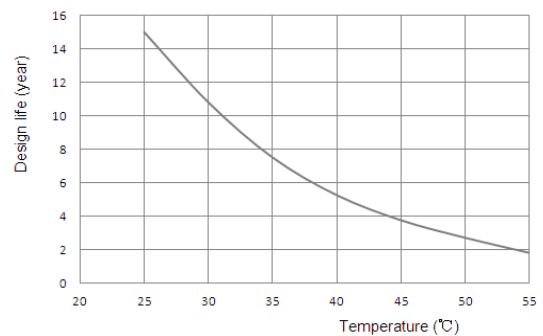
Battery Model	GFMU-500C			
Designed Life (Years, 25°C)	15			
Capacity (Ah, 25°C)	120HR(5.0A,1.85V)	100HR(5.88A, 1.85V)	20HR(25.5A,1.80V)	10HR(50A,1.80V)
	600	588	510	500
Dimensions (mm)	Length	Width	Height	Total Height
	188.5	179	367	377
Approx. Weight (kg)	29.0			
Internal Resistance (mΩ)	0.40			
Maximum Discharge Current (A/5 Sec.)	1750			
Self-Discharge (25°C)	≤1.5% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current:75A		2.25 (-3.5mV/°C/cell)	

Discharge Data
Constant current discharge data (25°C, A)

End voltage (V/cell)	h													
	1	2	3	5	6	8	10	12	20	24	48	100	120	240
1.75	275	170	130	88.0	76.0	62.0	51.5	43.0	27.1	22.7	11.8	5.94	5.04	2.59
1.80	250	160	125	85.0	74.0	60.0	50.0	42.0	26.4	22.1	11.7	5.91	5.02	2.58
1.85	233	150	119	82.8	71.8	58.1	48.6	40.6	25.7	21.6	11.6	5.88	5.00	2.57
1.90	221	142	112	79.1	68.9	56.1	47.5	39.6	25.0	21.1	11.5	5.85	4.96	2.56
1.95	207	135	106	75.3	65.8	53.9	45.9	38.7	24.3	20.6	11.4	5.82	4.93	2.55

Constant power discharge data (25°C, W/cell)

End voltage (V/cell)	h													
	1	2	3	5	6	8	10	12	20	24	48	100	120	240
1.75	520	325	250	171	148	121	101	84.2	52.7	44.7	23.3	11.8	10.0	5.17
1.80	479	309	243	166	145	118	98.3	82.7	51.8	43.8	23.3	11.8	10.0	5.16
1.85	451	292	232	162	141	114	96.0	80.3	50.2	42.8	23.2	11.7	10.0	5.14
1.90	429	278	221	156	136	111	94.1	78.5	49.2	42.0	22.9	11.7	9.90	5.13
1.95	405	265	210	149	130	107	91.1	77.0	48.0	41.0	22.8	11.6	9.90	5.11

Performance Curve:

Discharge performance

Temperature vs. capacity

DOD vs. cycles

Design life vs. temperature
Sacred Sun Power Sources Co., Ltd.

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