

### Advantages

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

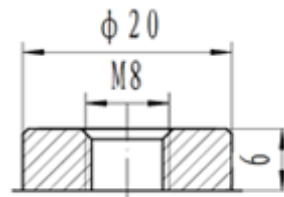
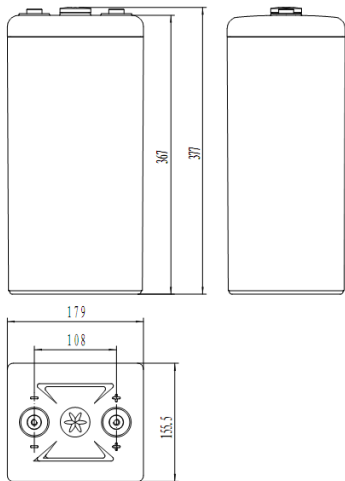
### Application

- 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

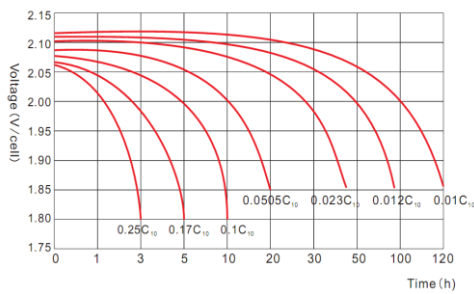
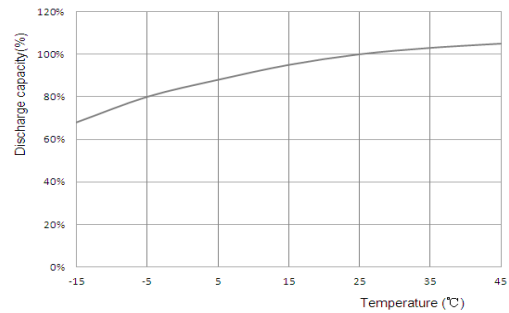
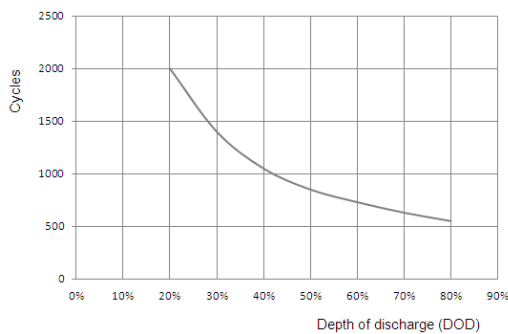
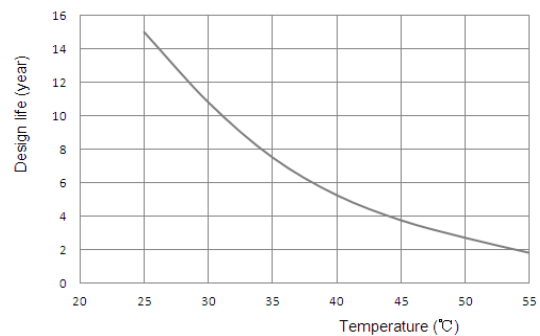
Battery Model	GFMU-400C			
Designed Life (Years, 25°C)	15			
Capacity (Ah, 25°C)	120HR(4.0A,1.85V)	100HR(4.7A, 1.85V)	20HR(21.1A,1.80V)	10HR(40A,1.80V)
	480	470	422	400
Dimensions (mm)	Length	Width	Height	Total Height
	155.5	179	367	377
Approx. Weight (kg)	24.0			
Internal Resistance (mΩ)	0.43			
Maximum Discharge Current (A/5 Sec.)	1400			
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:60A		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	220	136	104	70.4	60.8	49.6	41.2	34.4	21.7	18.2	9.41	4.75	4.03	2.07
1.80	200	128	100	68.0	59.2	48.0	40.0	33.6	21.1	17.7	9.36	4.73	4.02	2.06
1.85	187	120	94.9	66.2	57.4	46.5	38.9	32.5	20.6	17.3	9.31	4.70	4.00	2.05
1.90	177	114	90.0	63.3	55.1	44.9	38.0	31.7	20.0	16.9	9.21	4.68	3.97	2.05
1.95	165	108	85.1	60.3	52.6	43.1	36.7	31.0	19.4	16.5	9.14	4.66	3.94	2.04

**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	416	260	200	136	118	96.7	80.5	67.4	42.2	35.8	18.6	9.43	8.02	4.14
1.80	383	247	194	133	116	94.2	78.7	66.2	41.4	35.0	18.6	9.43	8.01	4.13
1.85	361	234	185	130	113	91.5	76.8	64.3	40.2	34.3	18.5	9.39	7.99	4.11
1.90	344	222	177	125	109	88.8	75.3	62.8	39.4	33.6	18.4	9.35	7.93	4.10
1.95	324	212	168	119	104	85.5	72.9	61.6	38.4	32.8	18.2	9.32	7.89	4.09

**Performance Curve :**

**Discharge performance**

**Temperature vs. capacity**

**DOD vs. cycles**

**Design life vs. temperature**
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