

# GFM-2000Ah

## Valve-regulated Lead Acid Battery Specification



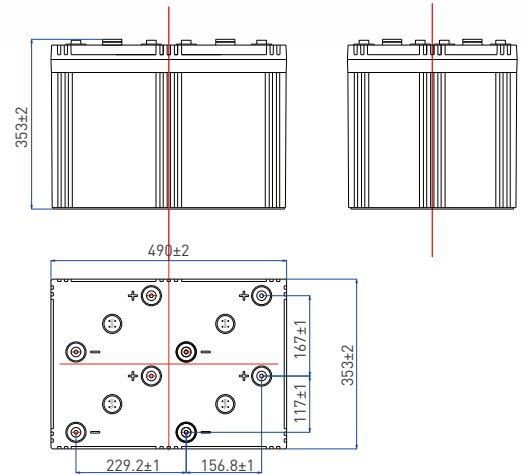
### Application

- Solar/Wind Power System
- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency Backup Power Supplies
- Communication Power Supplies
- DC Power Supplies
- Auto Control System



### Specification

Rated Voltage	2V
Numbers of cells	4Cells
Capacity	2000Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 2000.0AH
	C3 1476.0AH
	C1 1016.1AH
Internal Resistance	Approx. 0.22 mΩ
Weight	125.24kg
Initial Current	500A
Terminal	F10(M8)
Design Life	10~15 years
Float Charging Voltage	2.23 V~2.27 V @ 25°C Temperature Compensation: -3.3mV/°C/Cell
Cycle Use Voltage	2.35 V~2.40 V @ 25°C Temperature Compensation: -5mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~50°C Charge: -10°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Length	490±2 mm (19.3 inches)
Width	353±2 mm (13.9 inches)
Height	343±2 mm (13.5 inches)
Total Height	353.±2 mm (13.9 inches)

### Constant Current Discharge Characteristics: A(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	2840.1	2406.0	2059.4	1793.2	1469.1	1167.9	944.2	492.0	326.0	200.0	105.0
1.75V/cell	3319.4	2757.0	2329.9	1987.1	1598.0	1264.1	1016.1	500.0	342.0	204.0	106.4
1.70V/cell	3798.7	3116.5	2575.2	2185.2	1736.4	1350.3	1075.6	522.0	355.8	209.0	108.6
1.65V/cell	\	3332.0	2739.9	2309.8	1819.4	1403.6	1117.7	538.7	365.6	212.4	110.4
1.60V/cell	\	3773.4	3079.7	2575.2	1990.1	1518.2	1200.0	561.3	382.6	219.2	113.8

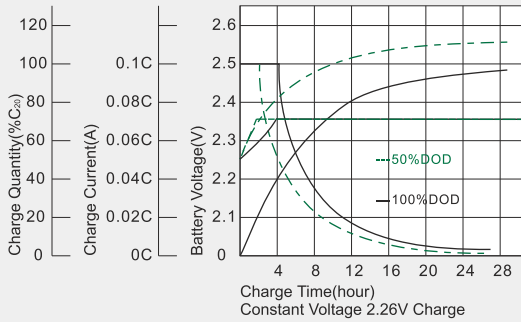
### Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	5165.8	4416.1	3811.8	3348.4	2771.9	2239.1	1821.1	958.5	639.4	397.2	208.7
1.75V/cell	5909.8	4979.7	4259.8	3675.1	2990.4	2400.6	1950.6	970.3	668.5	404.6	211.2
1.70V/cell	6576.6	5502.2	4643.0	4011.4	3231.4	2554.8	2058.4	1011.1	694.3	414.3	215.5
1.65V/cell	\	5829.0	4902.2	4208.4	3358.3	2631.7	2123.6	1038.9	710.9	420.3	218.9
1.60V/cell	\	6451.8	5419.7	4641.2	3647.8	2831.5	2268.0	1077.8	741.5	433.1	225.2

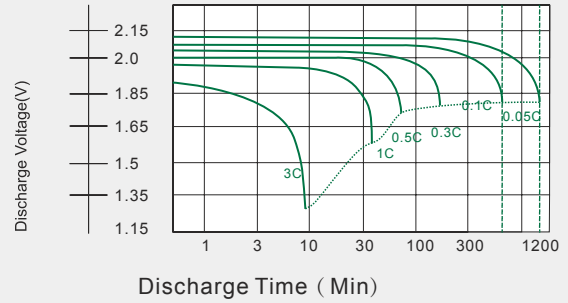
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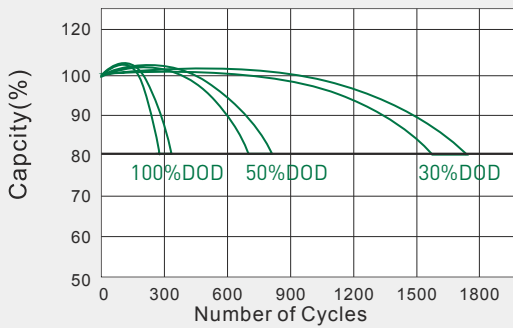
### Charge Characteristics for Float Use @ 25°C/77°F



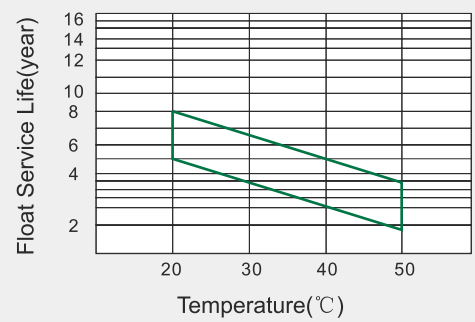
### Discharge Characteristics at Various Rates @ 25°C/77°F



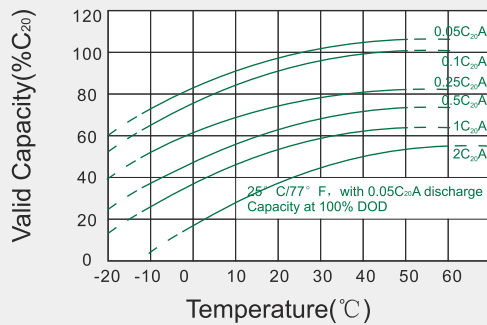
### Cycle Life in Relation to Depth of Discharge



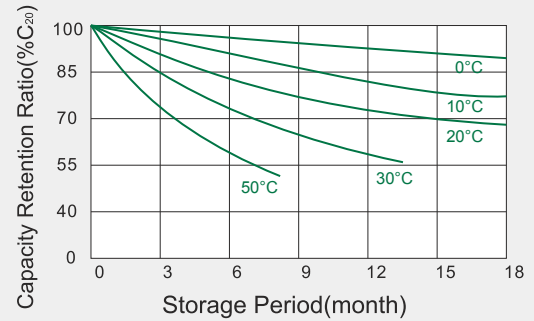
### Float Service Life



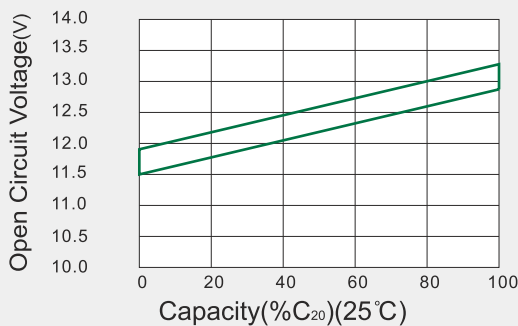
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

