

# GFM-800Ah

## Valve-regulated Lead Acid Battery Specification

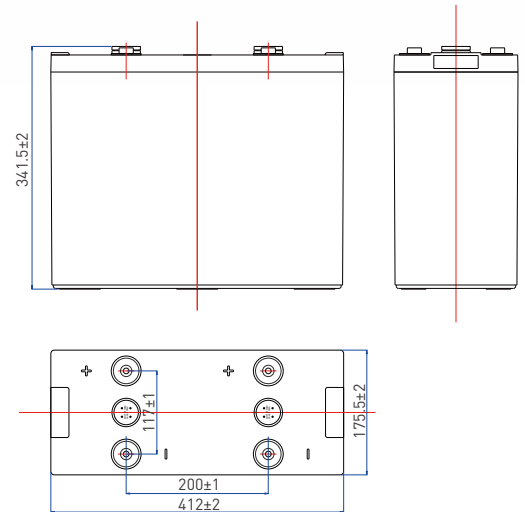
### Features

- 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	1 Cells
Capacity	800Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 800.0AH
	C3 590.4AH
	C1 406.4AH
Internal Resistance	Approx. 0.35 mΩ
Weight	51.65kg
Initial Current	200A
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	412±2 mm (16.2 inches)
Width	175.5±2 mm (6.9 inches)
Height	332.0±2 mm (13.1 inches)
Total Height	341.5±2 mm (13.4 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	1136.0	962.4	823.8	717.3	587.6	467.2	377.7	196.8	130.4	80.0	42.0
1.75V/cell	1327.7	1102.8	932.0	794.8	639.2	505.6	406.4	200.0	136.8	81.6	42.5
1.70V/cell	1519.5	1246.6	1030.1	874.1	694.6	540.1	430.2	208.8	142.3	83.6	43.4
1.65V/cell	1631.3	1332.8	1095.9	923.9	727.8	561.4	447.1	215.5	146.2	85.0	44.2
1.60V/cell	1892.0	1509.4	1231.9	1030.1	796.0	607.3	480.0	224.5	153.0	87.7	45.5

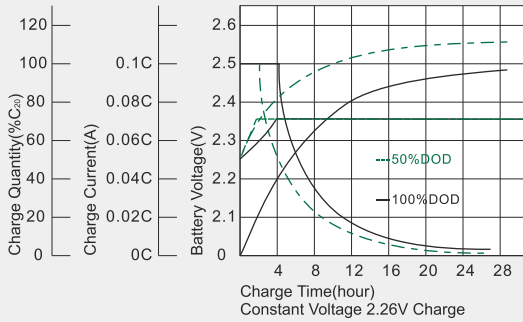
### Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	2066.3	1766.5	1524.7	1339.3	1108.7	895.6	728.4	383.4	255.8	158.9	83.5
1.75V/cell	2363.9	1991.9	1703.9	1470.1	1196.1	960.2	780.3	388.1	267.4	161.9	84.5
1.70V/cell	2630.6	2200.9	1857.2	1604.6	1292.6	1021.9	823.4	404.4	277.7	165.7	86.2
1.65V/cell	2784.5	2331.6	1960.9	1683.4	1343.3	1052.7	849.4	415.6	284.4	168.1	87.5
1.60V/cell	3155.2	2580.7	2167.9	1856.5	1459.1	1132.6	907.2	431.1	296.6	173.2	90.1

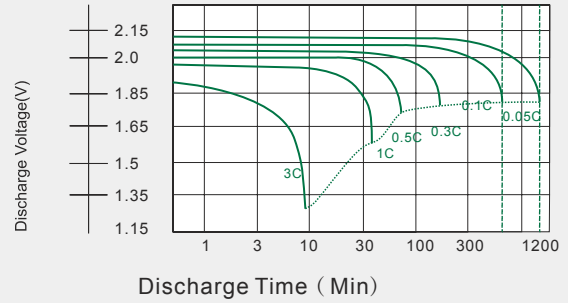
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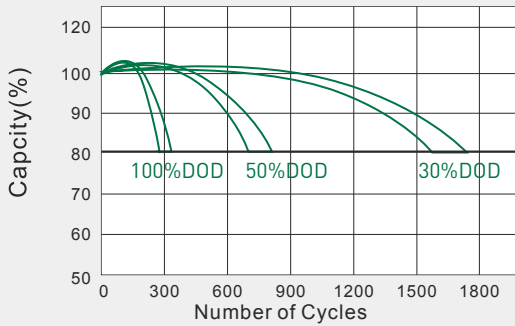
### Charge Characteristics for Float Use @ 25°C/77°F



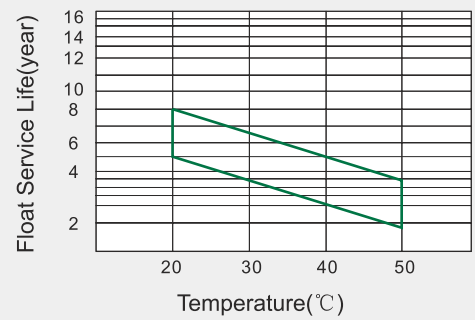
### Discharge Characteristics at Various Rates @ 25°C/77°F



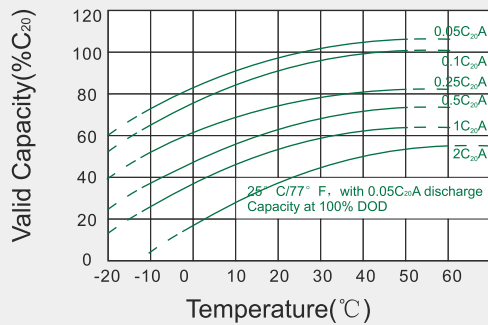
### Cycle Life in Relation to Depth of Discharge



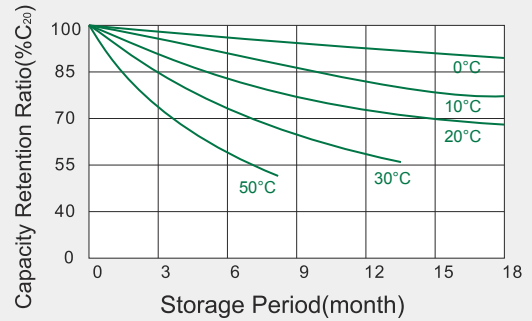
### Float Service Life



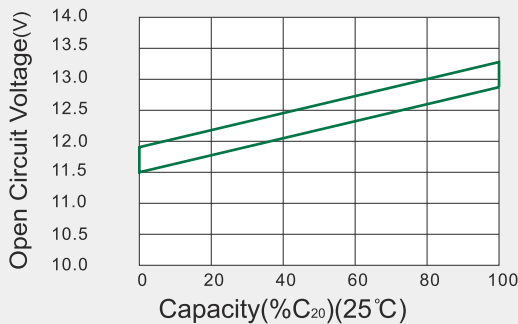
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

