

# GFM-400Ah

## Valve-regulated Lead Acid Battery Specification

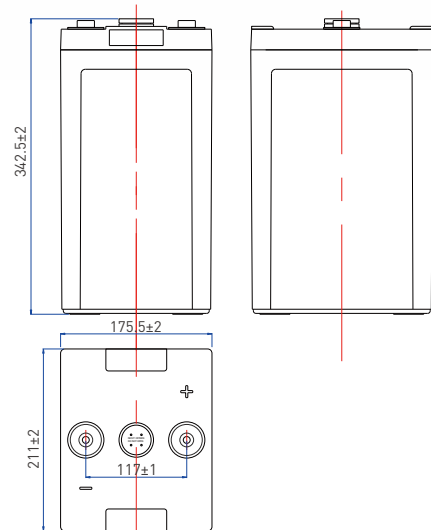
### Features

- 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	400Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 400.0AH
	C3 295.2AH
	C1 203.2AH
Internal Resistance	Approx. 0.45 mΩ
Weight	26.21kg
Initial Current	100A
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	211.0±2 mm (8.7 inches)
Width	175.5±2 mm (6.9 inches)
Height	332.0±2 mm (13.1 inches)
Total Height	342.5±2 mm (13.5 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	568.0	481.2	411.9	358.6	293.8	233.6	188.8	98.4	65.2	40.0	21.0
1.75V/cell	663.9	551.4	466.0	397.4	319.6	252.8	203.2	100.0	68.4	40.8	21.3
1.70V/cell	759.7	623.3	515.0	437.0	347.3	270.1	215.1	104.4	71.2	41.8	21.7
1.65V/cell	815.6	666.4	548.0	462.0	363.9	280.7	223.5	107.7	73.1	42.5	22.1
1.60V/cell	946.0	754.7	615.9	515.0	398.0	303.6	240.0	112.3	76.5	43.8	22.8

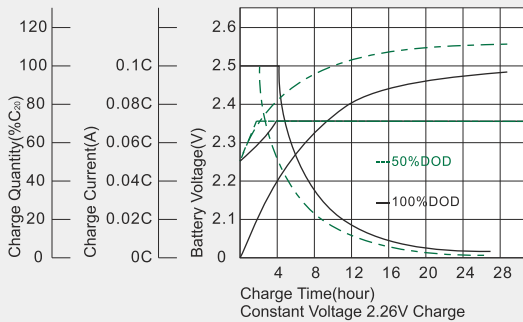
### Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	1033.2	883.2	762.4	669.7	554.4	447.8	364.2	191.7	127.9	79.4	41.7
1.75V/cell	1182.0	995.9	852.0	735.0	598.1	480.1	390.1	194.1	133.7	80.9	42.2
1.70V/cell	1315.3	1100.4	928.6	802.3	646.3	511.0	411.7	202.2	138.9	82.9	43.1
1.65V/cell	1392.2	1165.8	980.4	841.7	671.7	526.3	424.7	207.8	142.2	84.1	43.8
1.60V/cell	1577.6	1290.4	1083.9	928.2	729.6	566.3	453.6	215.6	148.3	86.6	45.0

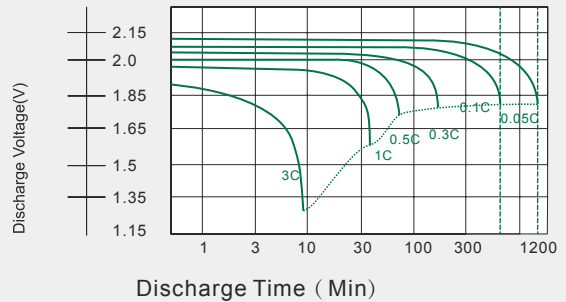
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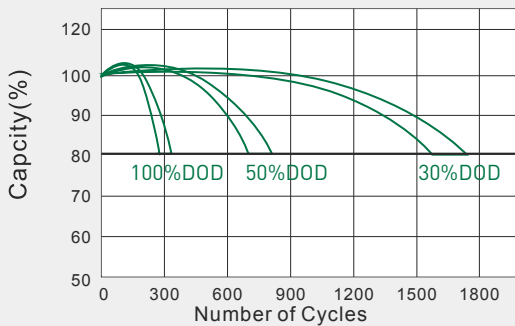
### Charge Characteristics for Float Use @ 25°C/77°F



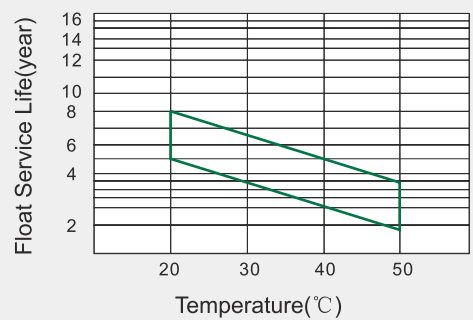
### Discharge Characteristics at Various Rates @ 25°C/77°F



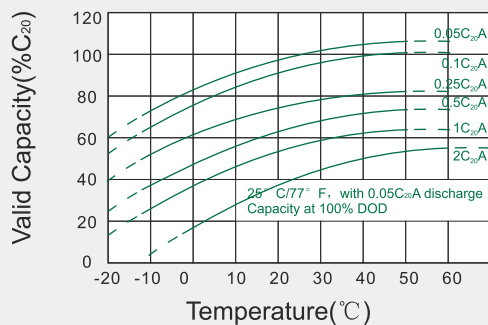
### Cycle Life in Relation to Depth of Discharge



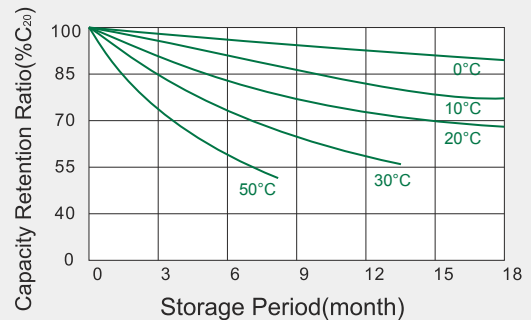
### Float Service Life



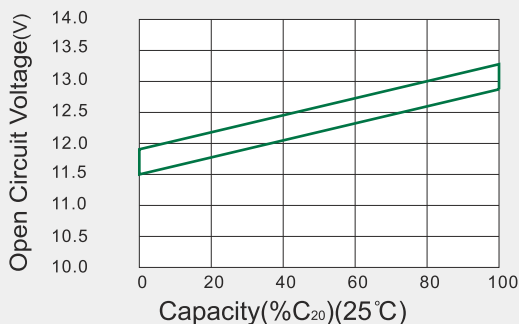
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

