

# GFM-600Ah

## Valve-regulated Lead Acid Battery Specification

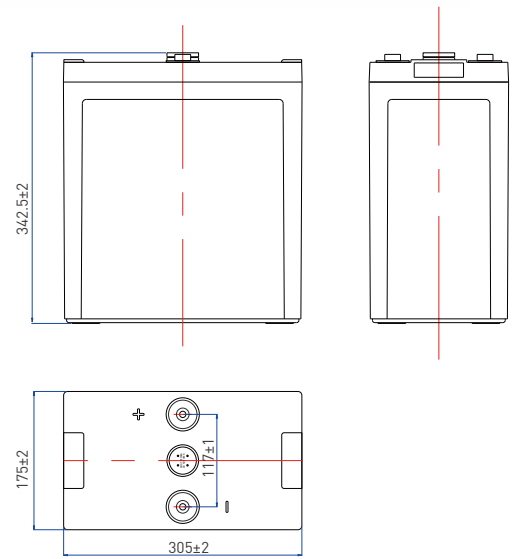
### Features

- 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	600Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 600.0AH
	C3 442.8AH
	C1 304.8AH
Internal Resistance	Approx. 0.4 mΩ
Weight	37.38kg
Initial Current	150A
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	301.5±2 mm (11.9 inches)
Width	175.0±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	852.0	721.8	617.8	537.9	440.7	350.4	283.3	147.6	97.8	60.0	31.5
1.75V/cell	\	827.1	699.0	596.1	479.4	379.2	304.8	150.0	102.6	61.2	31.9
1.70V/cell	\	935.0	772.6	655.6	520.9	405.1	322.7	156.6	106.7	62.7	32.6
1.65V/cell	\	\	822.0	692.9	545.8	421.1	335.3	161.6	109.7	63.7	33.1
1.60V/cell	\	\	923.9	772.6	597.0	455.5	360.0	168.4	114.8	65.8	34.1

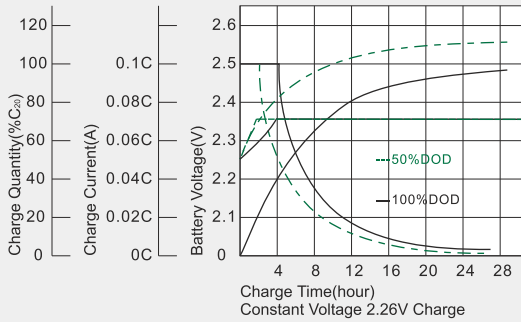
### Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	1549.7	1324.8	1143.5	1004.5	831.6	671.7	546.3	287.6	191.8	119.2	62.6
1.75V/cell	\	1493.9	1277.9	1102.5	897.1	720.2	585.2	291.1	200.5	121.4	63.4
1.70V/cell	\	1650.7	1392.9	1203.4	969.4	766.4	617.5	303.3	208.3	124.3	64.7
1.65V/cell	\	\	1470.6	1262.5	1007.5	789.5	637.1	311.7	213.3	126.1	65.7
1.60V/cell	\	\	1625.9	1392.4	1094.3	849.5	680.4	323.3	222.5	129.9	67.6

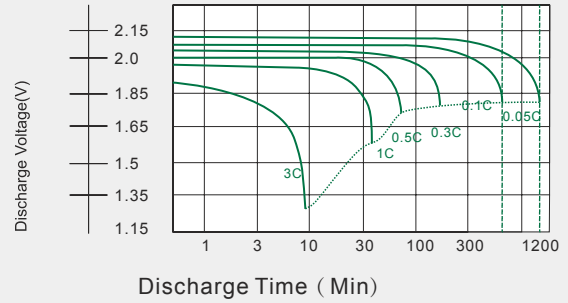
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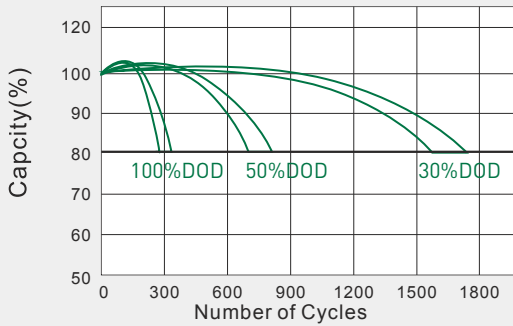
### Charge Characteristics for Float Use @ 25°C/77°F



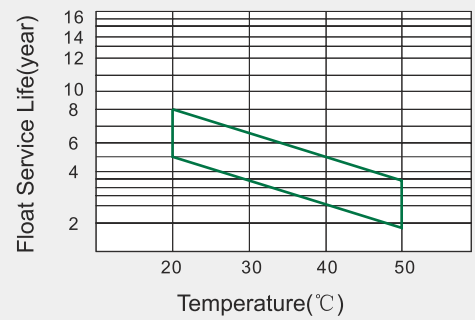
### Discharge Characteristics at Various Rates @ 25°C/77°F



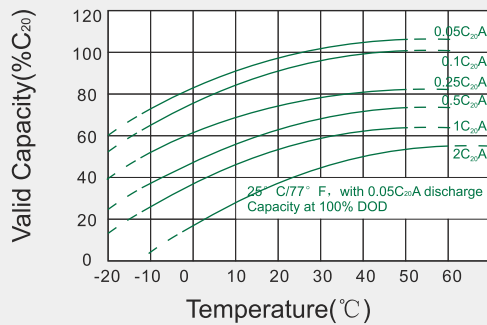
### Cycle Life in Relation to Depth of Discharge



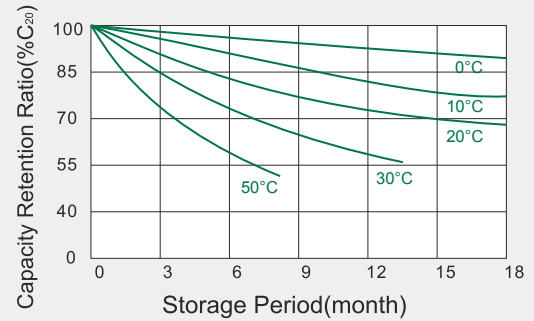
### Float Service Life



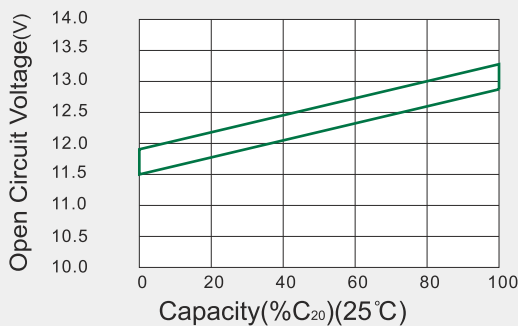
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

