

GFM-500Ah

Valve-regulated Lead Acid Battery Specification

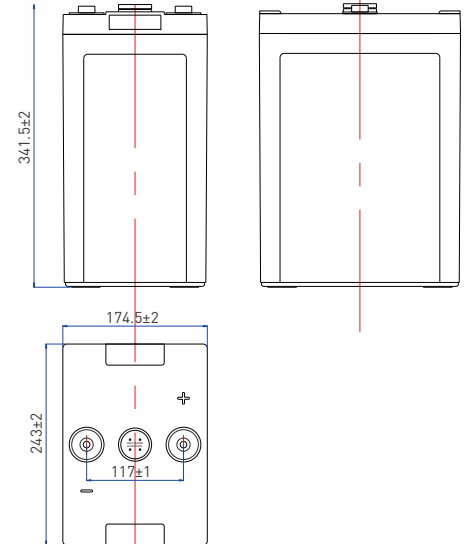
Features

- 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	500Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 500AH
	C3 369AH
	C1 254AH
Internal Resistance	Approx. 0.42 mΩ
Weight	30.10kg
Initial Current	125A
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	243.0±2 mm (9.6 inches)
Width	174.5±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	710.0	601.5	514.9	448.3	367.3	292.0	236.1	123.0	81.5	50.0	26.3
1.75V/cell	829.8	689.3	582.5	496.8	399.5	316.0	254.0	125.0	85.5	51.0	26.6
1.70V/cell	949.7	779.1	643.8	546.3	434.1	337.6	268.9	130.5	89.0	52.3	27.2
1.65V/cell	\	833.0	685.0	577.4	454.9	350.9	279.4	134.7	91.4	53.1	27.6
1.60V/cell	\	943.4	769.9	643.8	497.5	379.6	300.0	140.3	95.6	54.8	28.5

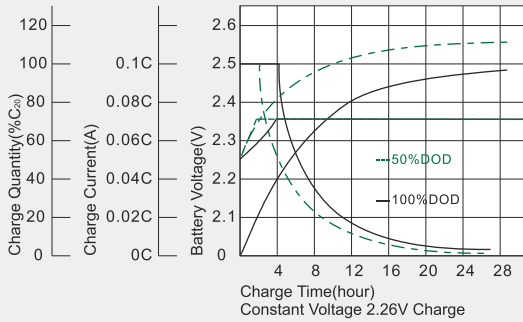
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	1291.4	1104.0	953.0	837.1	693.0	559.8	455.3	239.6	159.8	99.3	52.2
1.75V/cell	1477.4	1244.9	1064.9	918.8	747.6	600.1	487.7	242.6	167.1	101.2	52.8
1.70V/cell	1644.2	1375.5	1160.8	1002.9	807.9	638.7	514.6	252.8	173.6	103.6	53.9
1.65V/cell	\	1457.2	1225.5	1052.1	839.6	657.9	530.9	259.7	177.7	105.1	54.7
1.60V/cell	\	1613.0	1354.9	1160.3	912.0	707.9	567.0	269.4	185.4	108.3	56.3

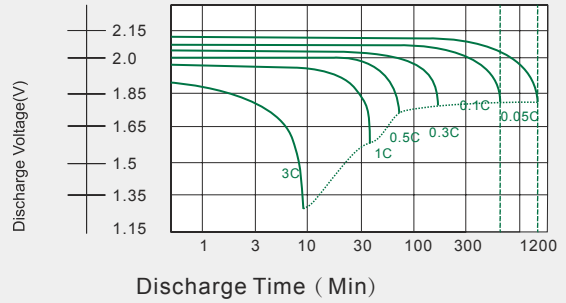
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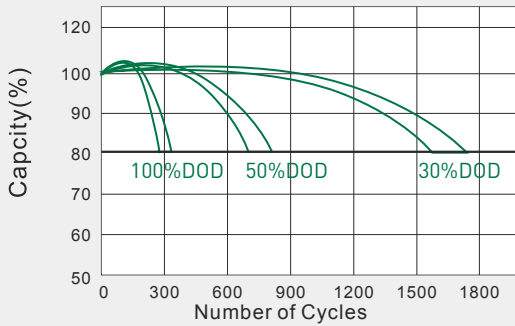
Charge Characteristics for Float Use @ 25°C/77°F



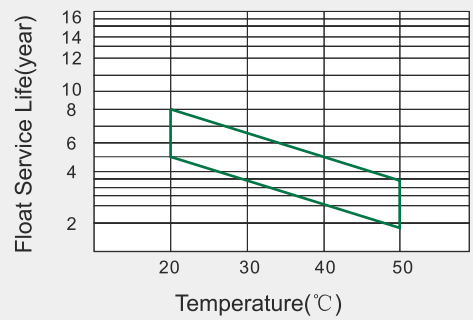
Discharge Characteristics at Various Rates @ 25°C/77°F



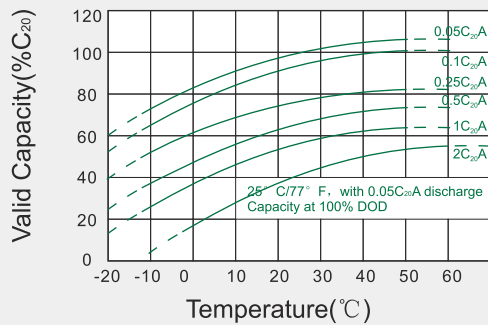
Cycle Life in Relation to Depth of Discharge



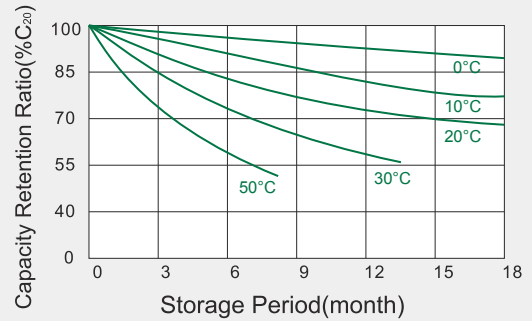
Float Service Life



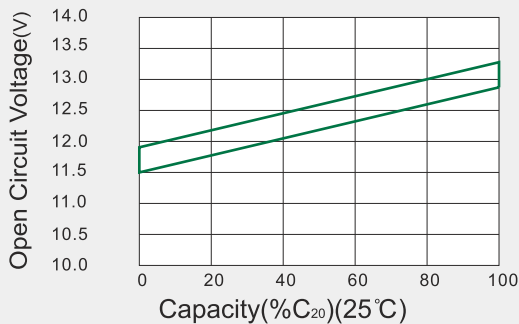
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

