

GFM-1200Ah

Valve-regulated Lead Acid Battery Specification

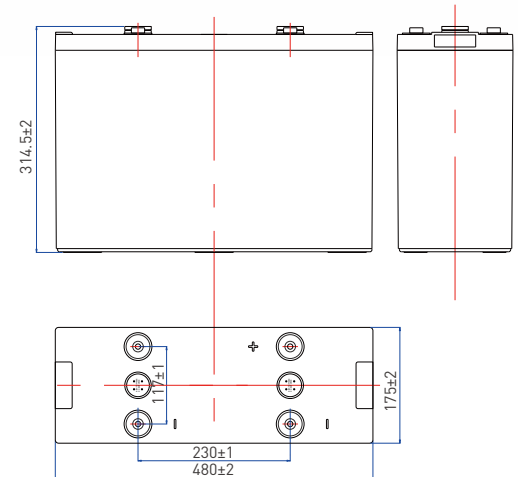
Features

- 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	2Cells
Capacity	1200Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 1200.0AH
	C3 885.9AH
	C1 609.6AH
Internal Resistance	Approx. 0.3 mΩ
Weight	76kg
Initial Current	300A
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	480.0±2 mm (18.9 inches)
Width	175.0±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	1704.0	1443.6	1235.7	1075.9	881.4	700.7	566.5	295.2	195.6	120.0	63.0
1.75V/cell	\	1654.2	1398.0	1192.3	958.8	758.5	609.6	300.0	205.2	122.4	63.8
1.70V/cell	\	1869.9	1545.1	1311.1	1041.8	810.2	645.4	313.2	213.5	125.4	65.2
1.65V/cell	\	\	1643.9	1385.9	1091.7	842.1	670.6	323.2	219.3	127.4	66.3
1.60V/cell	\	\	1847.8	1545.1	1194.0	910.9	720.0	336.8	229.5	131.5	68.3

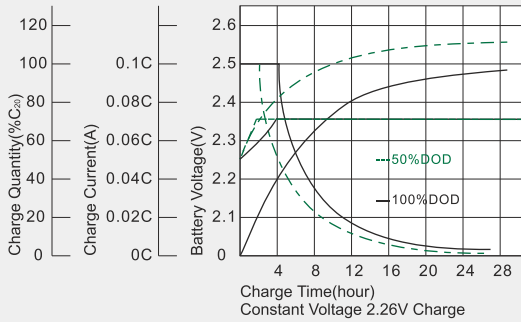
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	3099.5	2649.7	2287.1	2009.0	1663.1	1343.4	1092.6	575.1	383.6	238.3	125.2
1.75V/cell	\	2987.8	2555.9	2205.1	1794.2	1440.3	1170.4	582.2	401.1	242.8	126.7
1.70V/cell	\	3301.3	2785.8	2406.8	1938.9	1532.9	1235.0	606.7	416.6	248.6	129.3
1.65V/cell	\	\	2941.3	2525.1	2015.0	1579.0	1274.1	623.4	426.6	252.2	131.3
1.60V/cell	\	\	3251.8	2784.7	2188.7	1698.9	1360.8	646.7	444.9	259.8	135.1

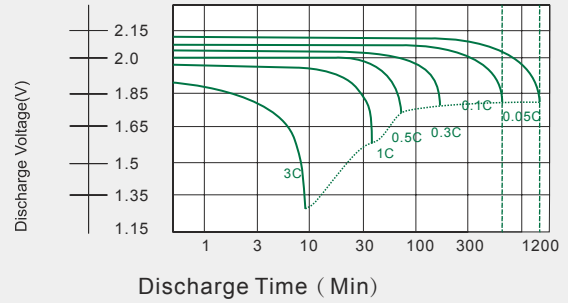
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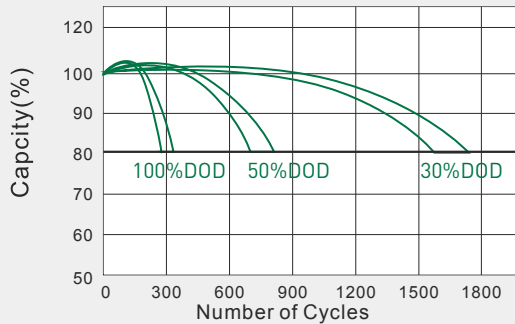
Charge Characteristics for Float Use @ 25°C/77°F



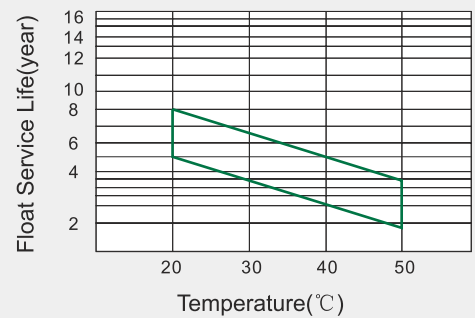
Discharge Characteristics at Various Rates @ 25°C/77°F



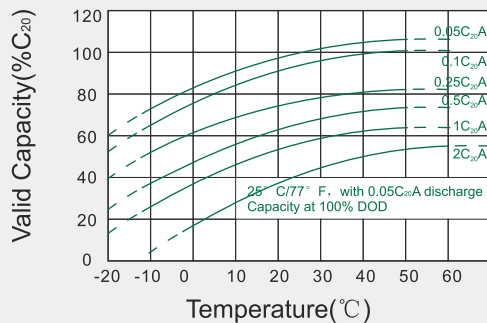
Cycle Life in Relation to Depth of Discharge



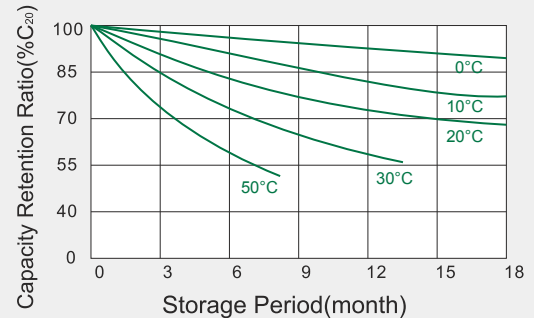
Float Service Life



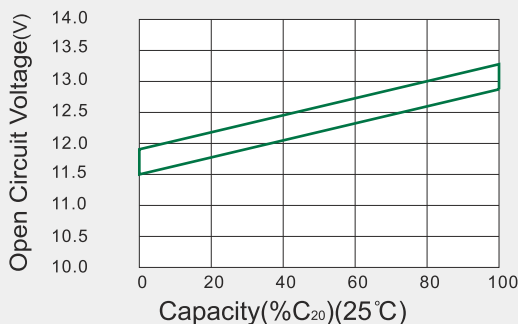
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

