

GFM-300Ah

Valve-regulated Lead Acid Battery Specification

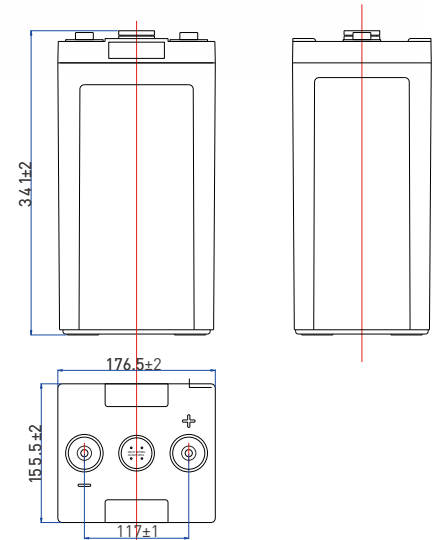
Application

- 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	300Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 300.0AH
	C3 211.4AH
	C1 152.4AH
Internal Resistance	Approx. 0.47 mΩ
Weight	18.93kg
Initial Current	75A
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	176±2mm (6.9 inches)
Width	155±1mm (6.1 inches)
Height	332±1mm (13.1 inches)
Total Height	341±1mm (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	426.0	360.9	308.9	269.0	220.4	175.2	141.6	73.8	48.9	30.0	15.8
1.75V/cell	\	413.6	349.5	298.1	239.7	189.6	152.4	75.0	51.3	30.6	16.0
1.70V/cell	\	467.5	386.3	327.8	260.5	202.5	161.3	78.3	53.4	31.4	16.3
1.65V/cell	\	\	411.0	346.5	272.9	210.5	167.6	80.8	54.8	31.9	16.6
1.60V/cell	\	\	462.0	386.3	298.5	227.7	180.0	84.2	57.4	32.9	17.1

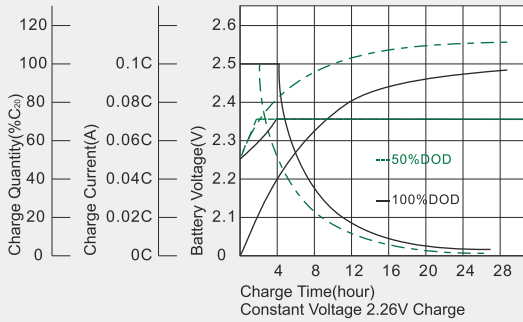
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	774.9	662.4	571.8	502.3	415.8	335.9	273.2	143.8	95.9	59.6	31.3
1.75V/cell	\	747.0	639.0	551.3	448.6	360.1	292.6	145.5	100.3	60.7	31.7
1.70V/cell	\	825.3	696.5	601.7	484.7	383.2	308.8	151.7	104.2	62.1	32.3
1.65V/cell	\	\	735.3	631.3	503.7	394.8	318.5	155.8	106.6	63.1	32.8
1.60V/cell	\	\	812.9	696.2	547.2	424.7	340.2	161.7	111.2	65.0	33.8

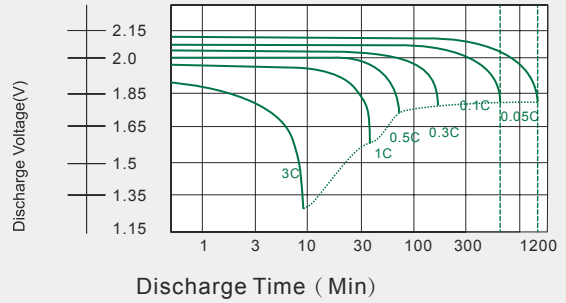
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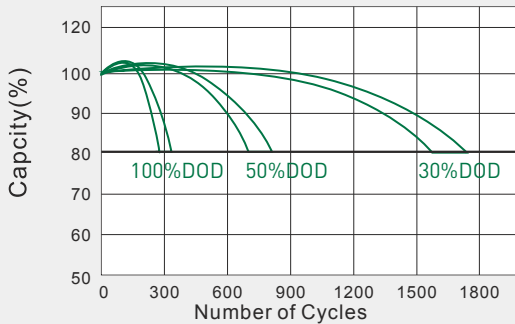
Charge Characteristics for Float Use @ 25°C/77°F



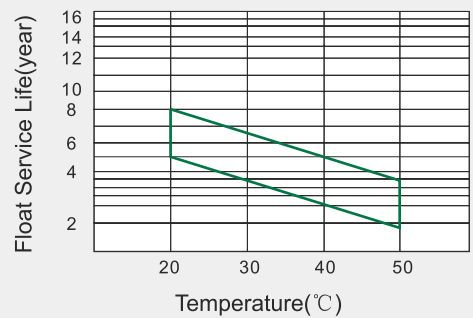
Discharge Characteristics at Various Rates @ 25°C/77°F



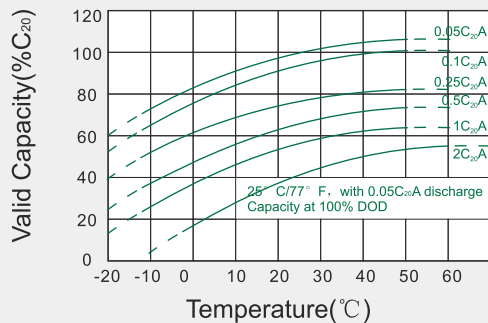
Cycle Life in Relation to Depth of Discharge



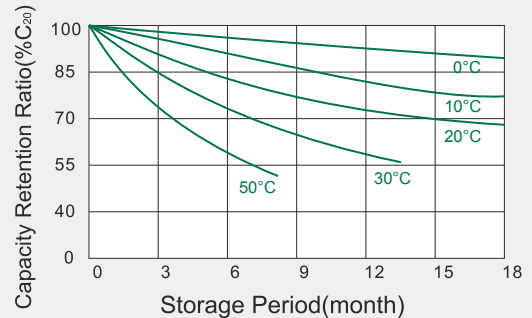
Float Service Life



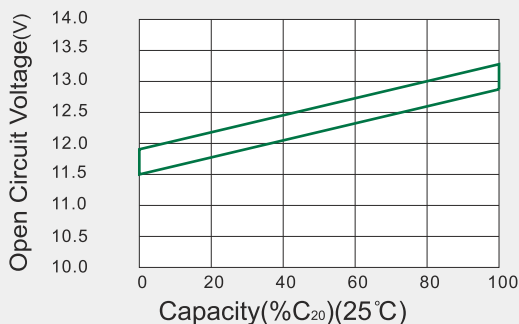
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

