

GFM-2500Ah

Valve-regulated Lead Acid Battery Specification



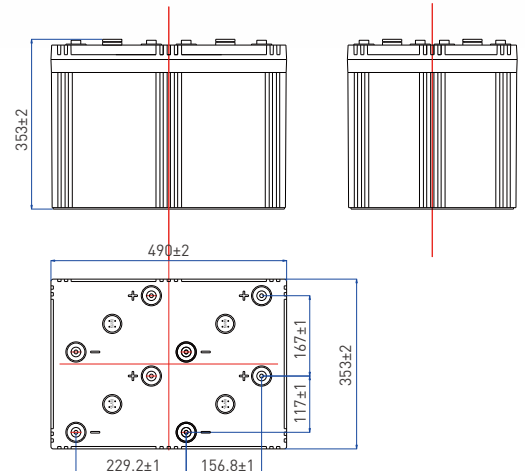
Application

- 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	4Cells
Capacity	2500Ah@10hr-rate to 1.80V per cell @25°C
Reference Capacity	C10 2500.0AH
	C3 1845.0AH
	C1 1270.1AH
Internal Resistance	Approx. 0.2 mΩ
Weight	166.02kg
Initial Current	625A
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	490±2 mm (19.3 inches)
Width	353±2 mm (13.9 inches)
Height	343±2 mm (13.5 inches)
Total Height	353±2 mm (13.9 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	\	3007.4	2574.3	2241.4	1836.3	1459.8	1180.3	615.0	407.5	250.0	131.3
1.75V/cell	\	\	2912.4	2483.9	1997.5	1580.2	1270.1	625.0	427.5	255.0	132.9
1.70V/cell	\	\	\	2731.5	2170.5	1687.9	1344.5	652.5	444.8	261.3	135.8
1.65V/cell	\	\	\	2887.3	2274.3	1754.4	1397.1	673.3	456.9	265.5	138.0
1.60V/cell	\	\	\	\	2487.6	897.8	1500.0	701.7	478.3	274.0	142.3

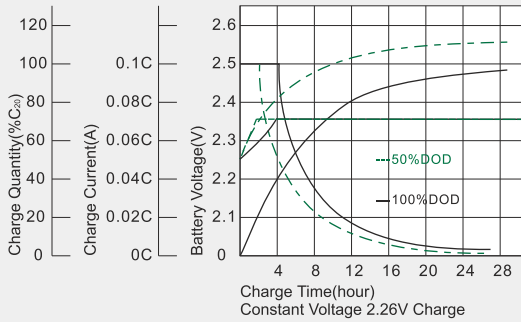
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	\	5490.1	4739.0	4163.1	3446.5	2784.3	2264.5	1216.3	795.2	494.0	259.6
1.75V/cell	\	\	5295.6	4569.1	3718.0	2984.9	2425.6	1273.2	831.3	512.4	267.9
1.70V/cell	\	\	\	4986.9	4017.6	3176.6	2559.6	1329.2	863.5	530.5	276.6
1.65V/cell	\	\	\	5231.7	4175.2	3272.1	2640.5	1358.0	884.1	539.4	281.5
1.60V/cell	\	\	\	\	4534.9	3520.4	2820.0	1428.5	922.1	564.2	293.2

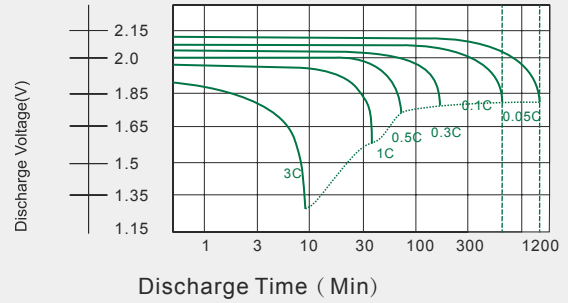
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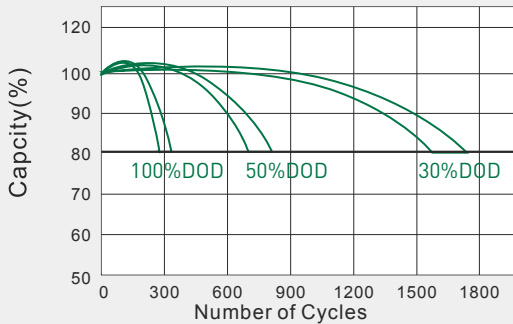
Charge Characteristics for Float Use @ 25°C/77°F



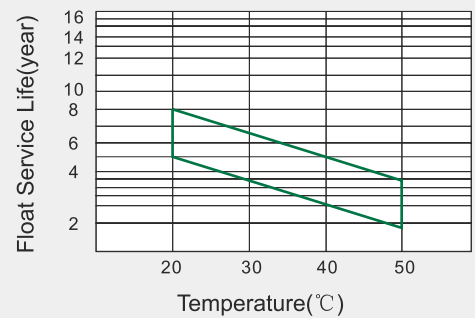
Discharge Characteristics at Various Rates @ 25°C/77°F



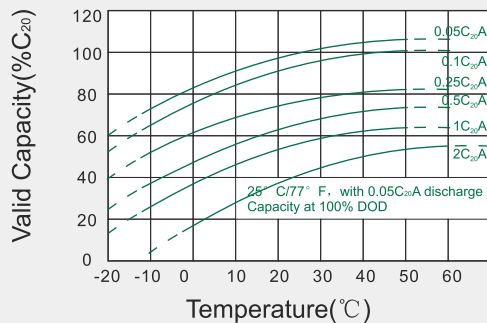
Cycle Life in Relation to Depth of Discharge



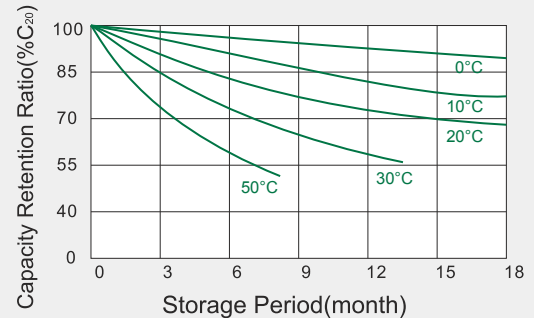
Float Service Life



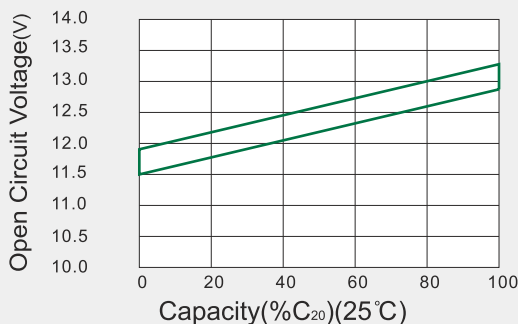
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

