

6-GFM-80Ah

Valve-regulated Lead Acid Battery Specification

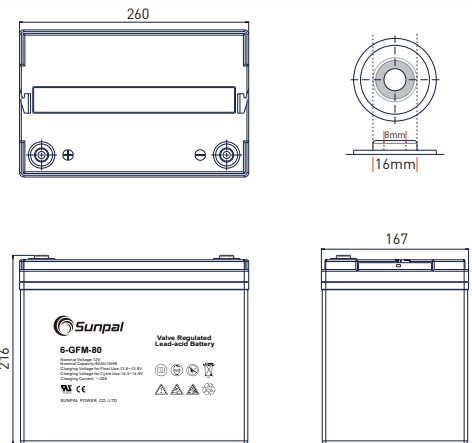
Features

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life



Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	80Ah@10hr-rate to 1.80V per cell @25°C
Weight	25.5kg
Internal Resistance	Approx. 5.8 mΩ
Terminal	F6
Max. Discharge Current	1200A(5s)
Short Circuit Current	4000A
Max. Charging Current	20A
Reference Capacity	C10 80.0AH C3 61.2AH C1 44.2AH
Design Life	10~15 years
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -20mV/°C/Cell
Cycle Use Voltage	14.4 V~14.9 V @ 25°C Temperature Compensation: -30mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~40°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	260±2mm (10.2 inches)
Width	167±1mm (6.6 inches)
Height	213±1mm (8.4 inches)
Total Height	216±1mm (8.5 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	183.8	137.5	110.6	90.5	71.8	53.6	42.2	20.4	13.4	8.0	4.16
1.75V/cell	207.2	151.1	120.8	97.4	74.6	55.6	44.2	20.8	13.8	8.1	4.20
1.70V/cell	228.2	164.7	129.0	102.3	77.6	57.8	45.6	21.4	14.1	8.2	4.28
1.65V/cell	251.6	177.8	137.2	108.7	81.9	59.3	47.1	22.3	14.5	8.3	4.34
1.60V/cell	277.5	193.0	146.7	115.8	86.4	61.8	48.8	23.0	15.0	8.4	4.36

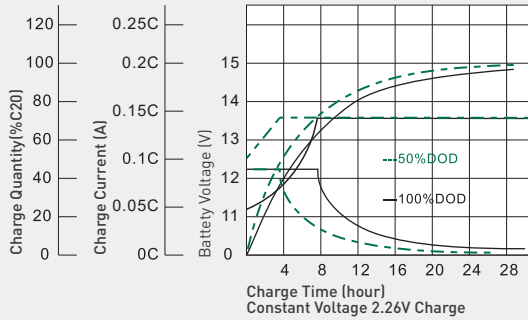
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	332.5	251.1	203.6	168.1	134.8	102.2	81.1	39.6	26.2	15.8	8.23
1.75V/cell	366.9	271.5	219.7	179.1	138.8	105.0	84.4	40.2	26.8	15.9	8.30
1.70V/cell	392.8	289.2	231.3	186.8	143.6	108.8	86.8	41.2	27.4	16.1	8.45
1.65V/cell	427.0	309.2	244.0	197.0	150.3	110.5	89.1	42.8	28.1	16.4	8.55
1.60V/cell	460.1	328.1	256.7	207.5	157.5	114.6	91.7	43.9	28.9	16.5	8.58

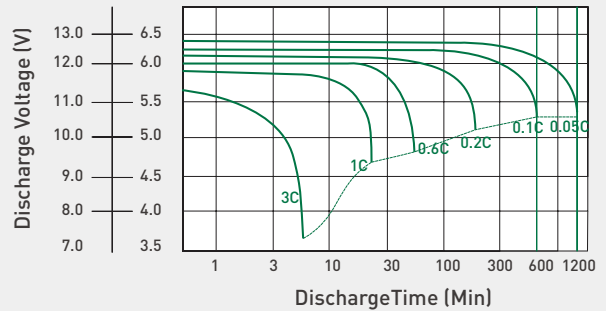
6-FM-80Ah

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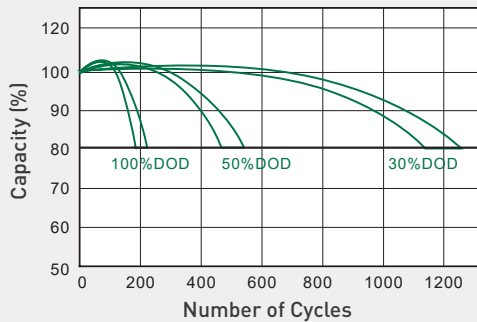
Charge Characteristics for Float Use @ 25°C/77°F



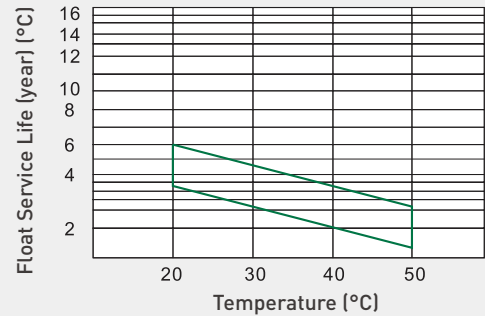
Discharge Characteristics at Various Rates @ 25°C/77°F



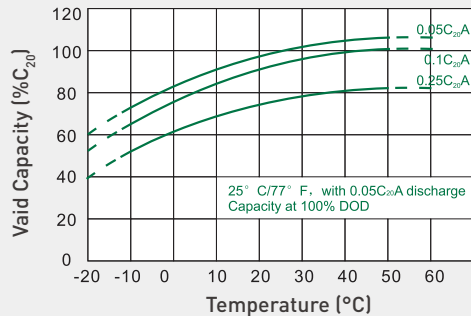
Cycle Life in Relation to Depth of Discharge



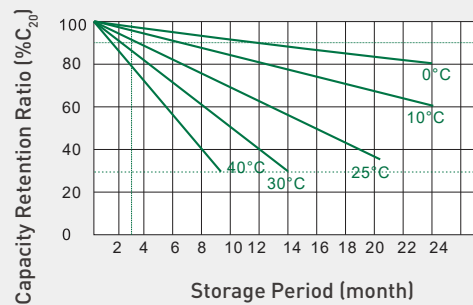
Float Service Life



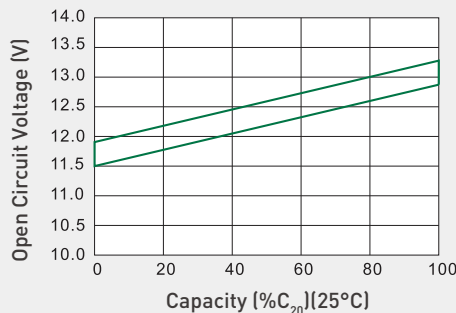
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

