

6-FM(G)-38Ah

Gel Battery Specification

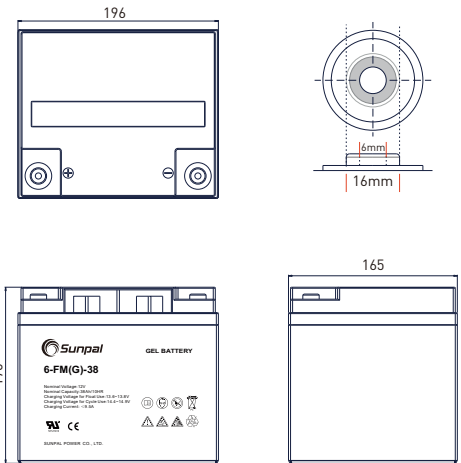
Application

- 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	38Ah@10hr-rate to 1.80V per cell @25°C
Weight	13.2kg
Internal Resistance	Approx. 9.6 mΩ
Terminal	F1 / F2
Max. Discharge Current	570A(5s)
Short Circuit Current	1900A
Max. Charging Current	9.5A
Reference Capacity	C10 38.0AH C3 28.8AH C1 21.8AH
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: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°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	196±2mm (7.7 inches)
Width	165±1mm (6.5 inches)
Height	170±1mm (6.7 inches)
Total Height	170±1mm (6.7 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	42.27	32.38	24.33	20.45	12.70	9.59	6.72	5.80	4.61	3.80	2.18
1.75V/cell	47.50	35.58	26.37	21.81	13.47	10.08	6.98	6.00	4.77	3.88	2.23
1.70V/cell	51.18	38.10	28.02	23.17	14.25	10.57	7.20	6.21	4.91	3.96	2.25
1.65V/cell	53.22	39.65	28.98	24.04	14.64	10.86	7.35	6.31	4.98	4.01	2.28
1.60V/cell	57.68	42.36	31.12	25.49	15.22	11.34	7.57	6.47	5.07	4.09	2.31

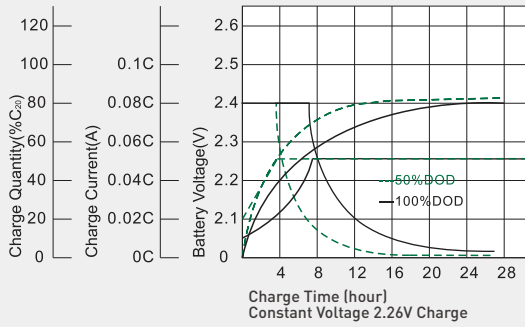
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	79.88	61.75	46.92	39.55	24.72	18.71	13.18	11.44	9.16	7.56	4.34
1.75V/cell	88.70	67.37	50.31	42.07	26.08	19.68	13.67	11.83	9.43	7.71	4.43
1.70V/cell	94.52	71.44	53.03	44.30	27.53	20.45	14.06	12.21	9.69	7.88	4.48
1.65V/cell	97.33	73.48	54.58	45.66	28.11	21.04	14.35	12.31	9.79	7.96	4.52
1.60V/cell	104.31	77.94	58.16	48.28	29.08	21.81	14.73	12.60	9.98	8.10	4.58

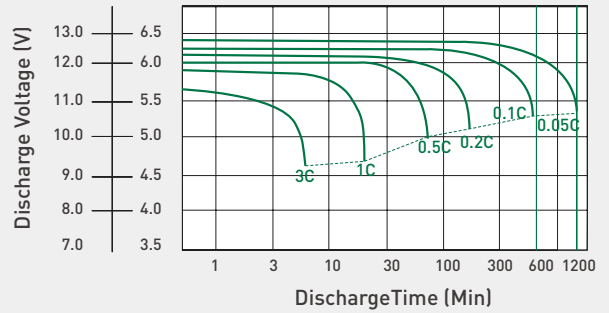
6-GFM(G)-38Ah

Gel Battery Specification

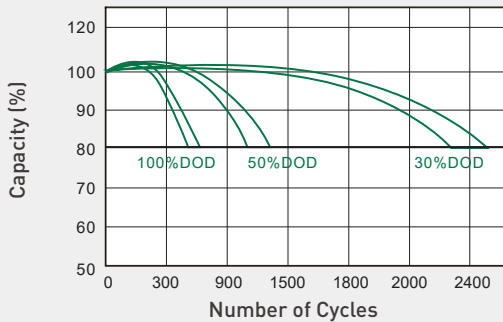
Charge Characteristics for Float Use @ 25°C/77°F



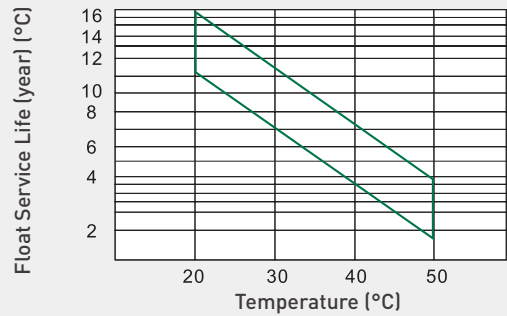
Discharge Characteristics at Various Rates @ 25°C/77°F



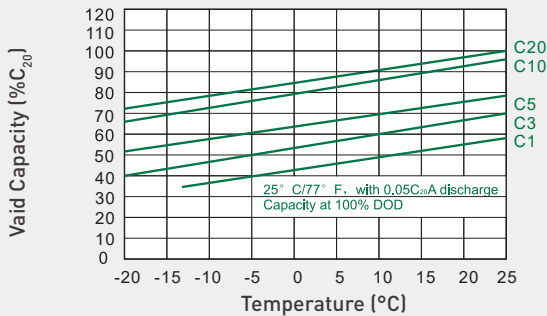
Cycle Life in Relation to Depth of Discharge



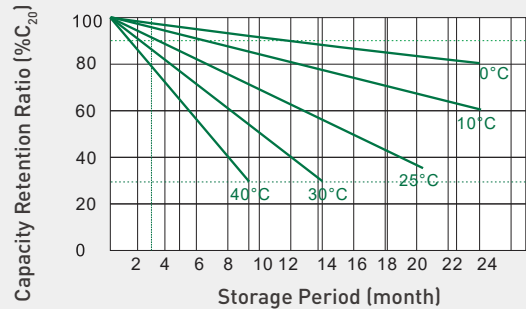
Float Service Life



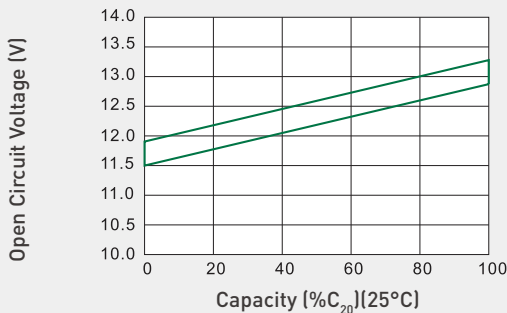
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

