

6-FM(G)-40Ah

Gel Battery Specification

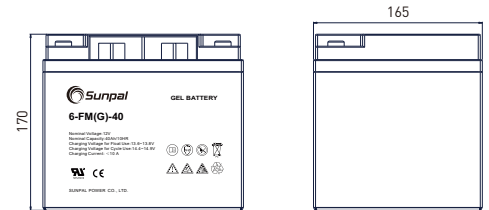
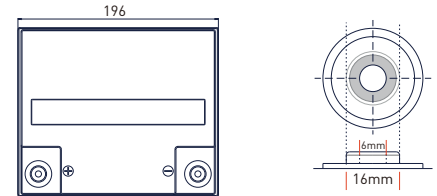
Application

- 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	40Ah@10hr-rate to 1.80V per cell @25°C
Weight	14.2kg
Internal Resistance	Approx. 10.0 mΩ
Terminal	F1 / F2
Max. Discharge Current	400A(5s)
Short Circuit Current	1900A
Max. Charging Current	10A
Reference Capacity	C10 40.0AH C3 30.3AH C1 23.0AH
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	44.49	34.08	25.61	21.53	13.37	10.09	7.07	6.10	4.86	4.00	2.30
1.75V/cell	50.00	37.45	27.76	22.96	14.18	10.61	7.35	6.32	5.02	4.08	2.35
1.70V/cell	53.88	40.10	29.49	24.39	15.00	11.12	7.58	6.54	5.16	4.17	2.37
1.65V/cell	56.02	41.73	30.51	25.31	15.41	11.43	7.73	6.64	5.24	4.22	2.40
1.60V/cell	60.71	44.59	32.76	26.84	16.02	11.94	7.97	6.81	5.34	4.31	2.43

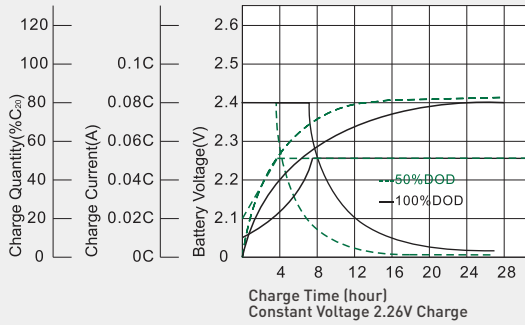
Constant Power Discharge Characteristics: WPC[25°C]

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	84.08	65.00	49.39	41.63	26.02	19.69	13.88	12.04	9.64	7.96	4.57
1.75V/cell	93.37	70.92	52.96	44.29	27.45	20.71	14.39	12.45	9.93	8.11	4.66
1.70V/cell	99.49	75.20	55.82	46.63	28.98	21.53	14.80	12.86	10.20	8.30	4.71
1.65V/cell	102.45	77.35	57.45	48.06	29.59	22.14	15.10	12.96	10.31	8.38	4.76
1.60V/cell	109.80	82.04	61.22	50.82	30.61	22.96	15.51	13.27	10.51	8.53	4.82

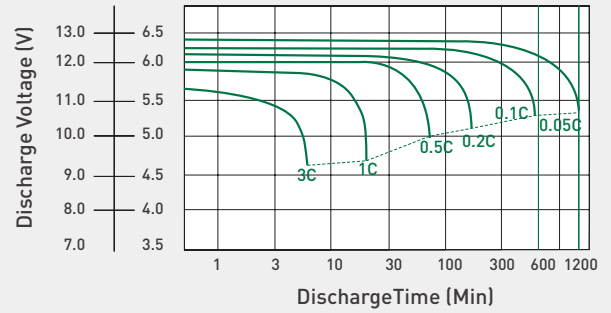
6-GFM(G)-40Ah

Gel Battery Specification

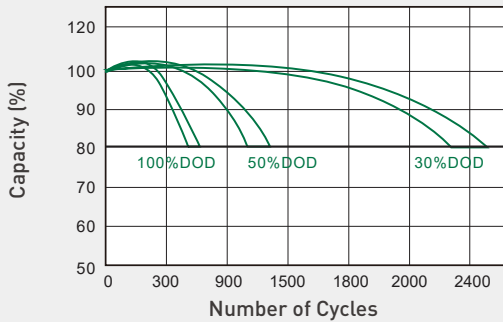
Charge Characteristics for Float Use @ 25°C/77°F



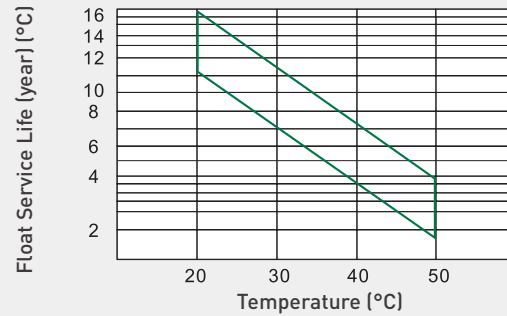
Discharge Characteristics at Various Rates @ 25°C/77°F



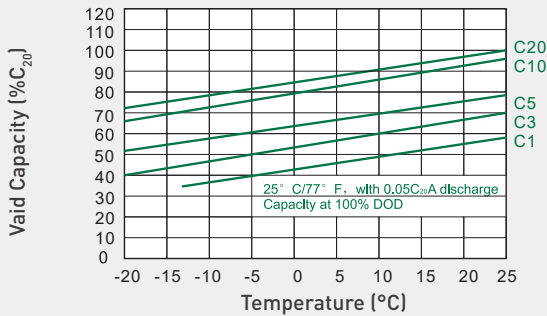
Cycle Life in Relation to Depth of Discharge



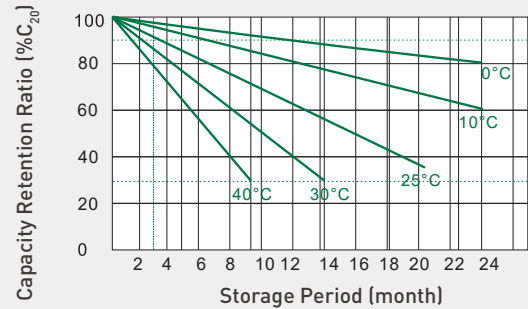
Float Service Life



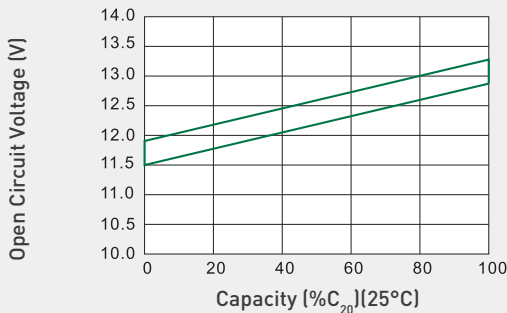
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

