

# 6-GFM(G)-80Ah

## Gel Battery Specification

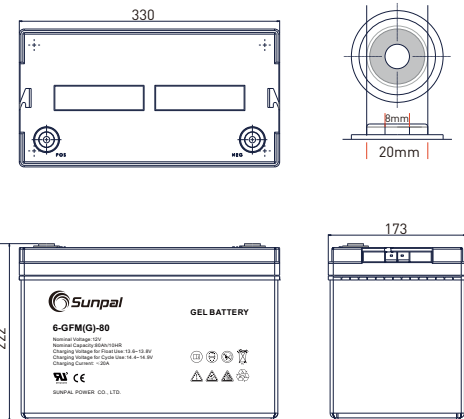
### Application

- 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	80Ah@10hr-rate to 1.80V per cell @25°C
Weight	27.5kg
Internal Resistance	Approx. 6.3 mΩ
Terminal	F1 / F2
Max. Discharge Current	1200A(5s)
Short Circuit Current	4000A
Max. Charging Current	20A
Reference Capacity	C10 80.0AH C3 57.9AH C1 44.0AH
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	330±2mm (13.8 inches)
Width	173±1mm (6.8 inches)
Height	217±1mm (8.9 inches)
Total Height	222±1mm (8.7 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	85.06	65.14	49.03	41.08	25.50	19.30	13.52	11.66	9.29	8.00	4.39
1.75V/cell	95.59	71.64	52.95	43.97	27.05	20.34	14.04	12.08	9.59	8.17	4.48
1.70V/cell	102.92	76.70	56.26	46.55	28.70	21.16	14.45	12.49	9.87	8.35	4.53
1.65V/cell	107.15	79.69	58.22	48.31	29.42	21.88	14.76	12.70	10.02	8.45	4.57
1.60V/cell	116.13	85.26	62.55	51.20	30.66	22.71	15.28	13.01	10.20	8.62	4.65

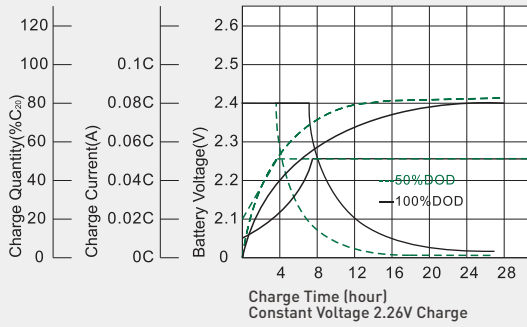
### Constant Power Discharge Characteristics: WPC[25°C]

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	160.62	124.28	94.35	79.59	49.65	37.57	26.53	23.02	18.48	15.90	8.74
1.75V/cell	178.48	135.43	101.26	84.75	52.44	39.64	27.56	23.74	18.99	16.21	8.91
1.70V/cell	190.25	143.79	106.74	89.08	55.33	41.19	28.28	24.57	19.51	16.62	9.01
1.65V/cell	195.72	147.82	109.73	91.97	56.57	42.32	28.80	24.88	19.82	16.72	9.09
1.60V/cell	209.75	156.80	117.06	97.14	58.53	43.77	29.63	25.39	20.03	17.03	9.21

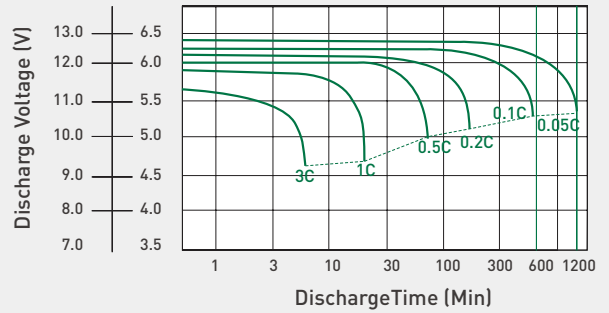
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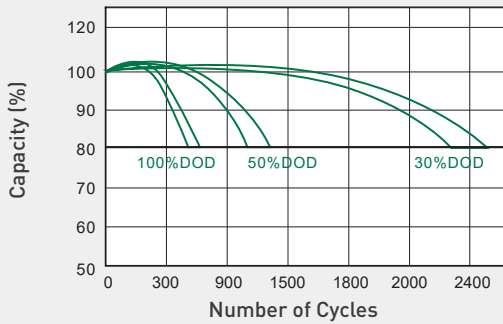
### Charge Characteristics for Float Use @ 25°C/77°F



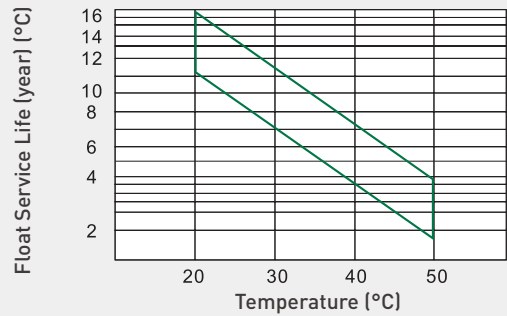
### Discharge Characteristics at Various Rates @ 25°C/77°F



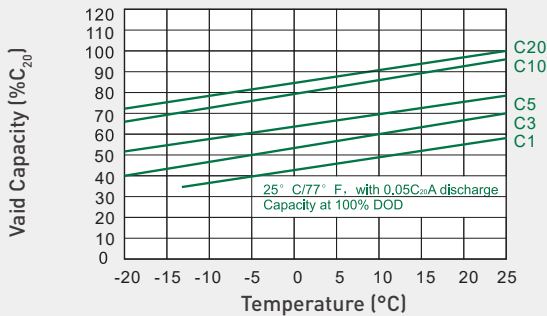
### Cycle Life in Relation to Depth of Discharge



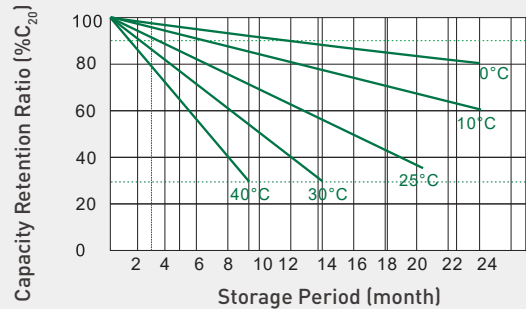
### Float Service Life



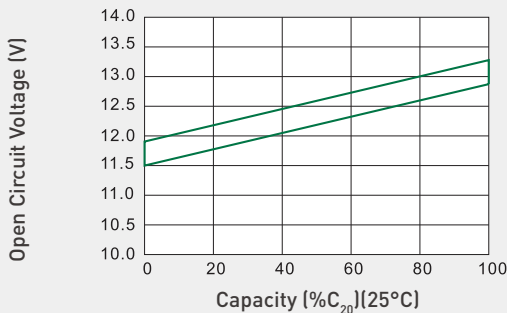
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

