

# 6-GFM(G)-85Ah

## Gel Battery Specification

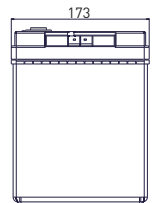
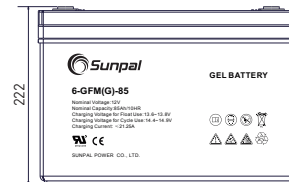
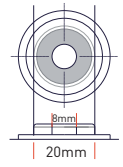
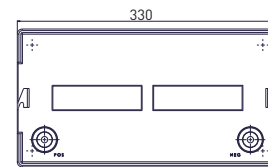
### Features

- 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	28.3kg
Internal Resistance	Approx. 6mΩ
Terminal	F1 / F2
Max. Discharge Current	1275A(5s)
Short Circuit Current	4250A
Max. Charging Current	21.25A
Reference Capacity	C10 85.0AH C3 61.5AH C1 46.7AH
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	90.37	69.21	52.10	43.65	27.09	20.51	14.37	12.39	9.87	8.50	4.66
1.75V/cell	101.56	76.12	56.26	46.72	28.74	21.61	14.92	12.83	10.19	8.68	4.76
1.70V/cell	109.35	81.49	59.77	49.46	30.49	22.48	15.35	13.27	10.49	8.87	4.81
1.65V/cell	113.85	84.67	61.86	51.33	31.26	23.25	15.68	13.49	10.65	8.98	4.86
1.60V/cell	123.39	90.59	66.46	54.40	32.57	24.13	16.23	13.82	10.84	9.16	4.94

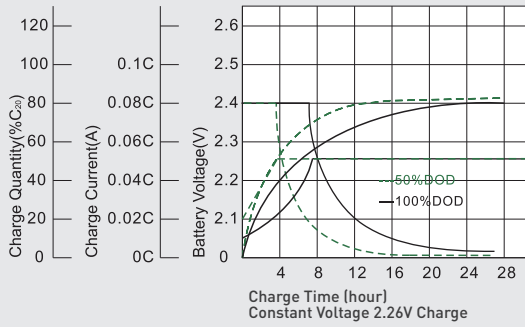
### Constant Power Discharge Characteristics: WPC[25°C]

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	170.66	132.05	100.25	84.56	52.75	39.92	28.19	24.46	19.63	16.89	9.29
1.75V/cell	189.63	143.90	107.59	90.05	55.72	42.12	29.28	25.23	20.18	17.22	9.47
1.70V/cell	202.14	152.78	113.41	94.65	58.79	43.76	30.05	26.10	20.73	17.66	9.57
1.65V/cell	207.95	157.06	116.59	97.72	60.10	44.97	30.60	26.43	21.06	17.77	9.66
1.60V/cell	222.86	166.60	124.37	103.21	62.19	46.50	31.48	26.98	21.28	18.10	9.78

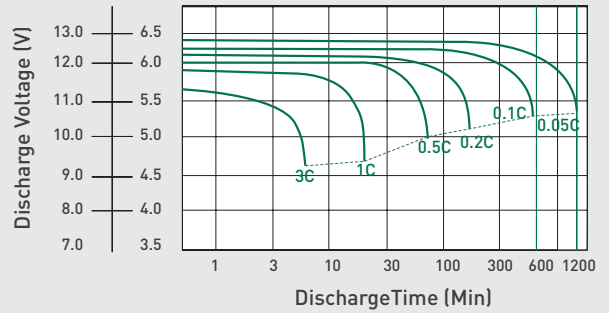
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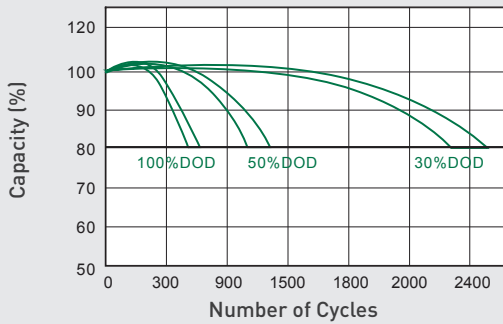
### Charge Characteristics for Float Use @ 25°C/77°F



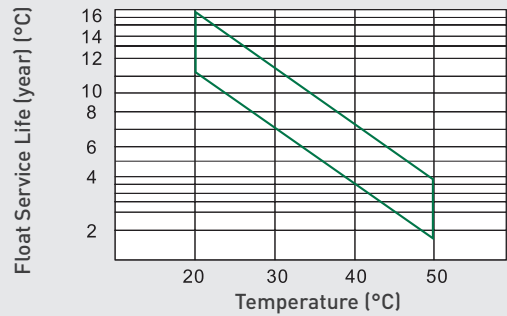
### Discharge Characteristics at Various Rates @ 25°C/77°F



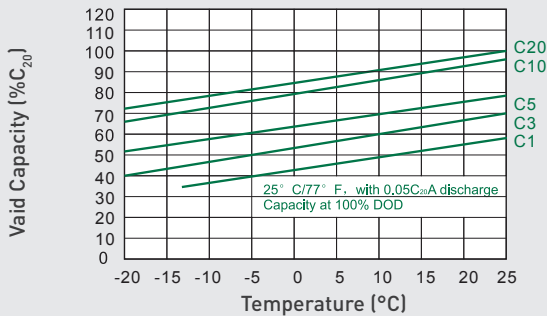
### Cycle Life in Relation to Depth of Discharge



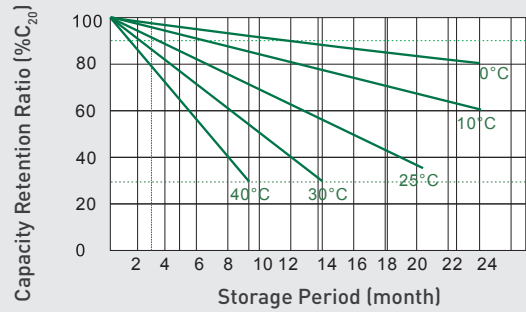
### Float Service Life



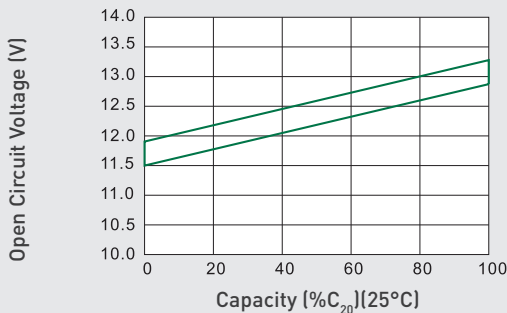
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

