

6-GFM(G)-180Ah

Gel Battery Specification

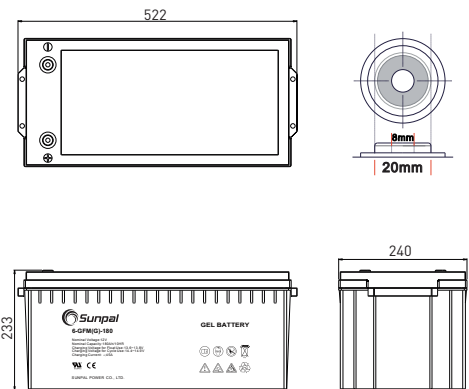
Features

- 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	180Ah@10hr-rate to 1.80V per cell @25°C
Weight	57.9kg
Internal Resistance	Approx. 3.8mΩ
Terminal	F1 / F2
Max. Discharge Current	2700A(5s)
Short Circuit Current	9000A
Max. Charging Current	45A
Reference Capacity	C10 180.0AH C3 130.7AH C1 99.1AH
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	522±2mm (20.6 inches)
Width	240±1mm (9.4 inches)
Height	219±1mm (8.6 inches)
Total Height	223±1mm (8.8 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	191.67	146.77	110.47	92.57	57.56	43.42	30.46	26.31	20.97	18.00	9.89
1.75V/cell	215.41	161.41	119.47	99.10	61.02	45.89	31.65	27.20	21.66	18.40	10.09
1.70V/cell	232.02	172.88	126.89	104.84	64.68	47.77	32.64	28.19	22.25	18.79	10.19
1.65V/cell	241.52	179.60	131.34	108.79	66.36	49.35	33.33	28.58	22.65	19.09	10.29
1.60V/cell	261.69	192.26	141.13	115.52	69.03	51.33	34.32	29.27	23.04	19.38	10.48

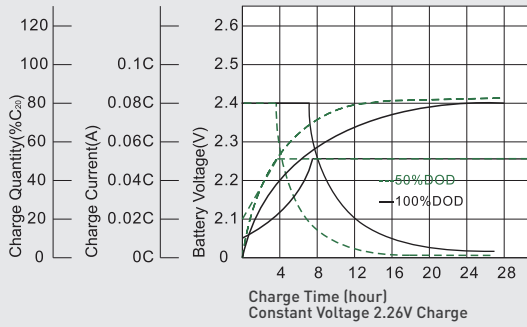
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	362.08	280.19	212.74	179.31	112.05	84.86	59.93	51.82	41.54	35.90	19.68
1.75V/cell	402.43	305.31	228.26	190.98	118.29	89.41	62.01	53.51	42.82	36.59	20.08
1.70V/cell	428.74	324.20	240.63	200.87	124.81	92.87	63.79	55.29	44.01	37.38	20.27
1.65V/cell	441.30	333.30	247.45	207.30	127.38	95.34	64.98	56.08	44.60	37.78	20.47
1.60V/cell	472.85	353.37	263.87	218.87	131.93	98.70	66.76	57.16	45.30	38.47	20.77

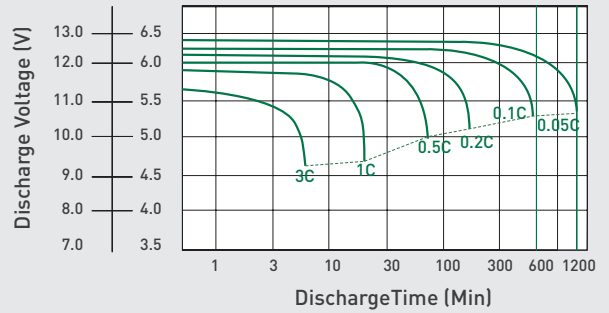
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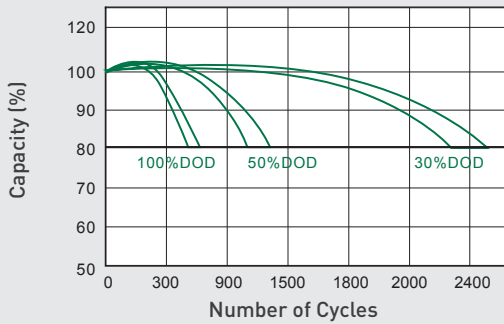
Charge Characteristics for Float Use @ 25°C/77°F



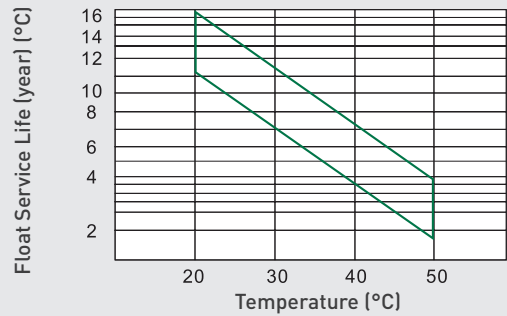
Discharge Characteristics at Various Rates @ 25°C/77°F



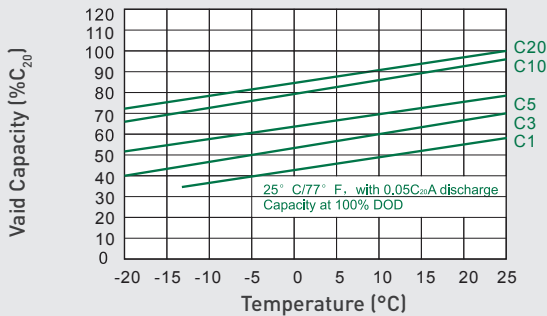
Cycle Life in Relation to Depth of Discharge



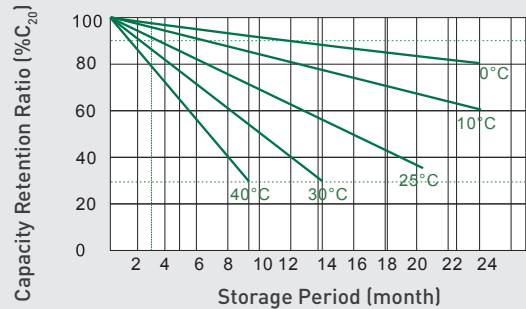
Float Service Life



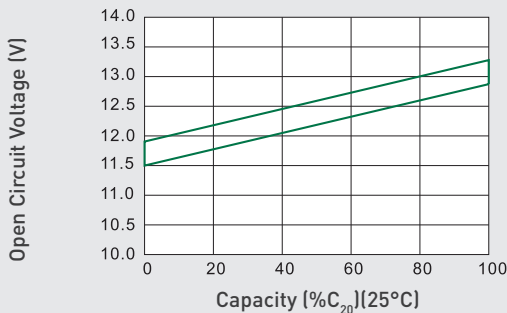
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

