

6-GFM(G)-90Ah

Gel Battery Specification

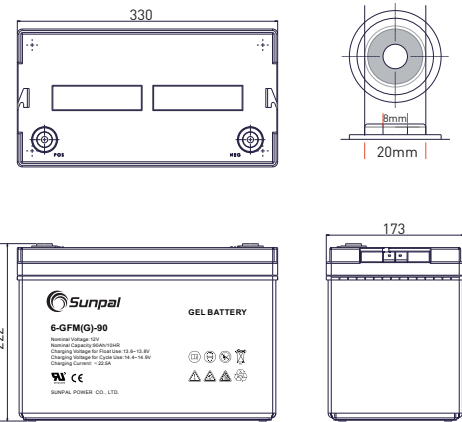
Features

- 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	90Ah@10hr-rate to 1.80V per cell @25°C
Weight	29.5kg
Internal Resistance	Approx. 6mΩ
Terminal	F1 / F2
Max. Discharge Current	1350A(5s)
Short Circuit Current	4500A
Max. Charging Current	22.5A
Reference Capacity	C10 90.0AH C3 65.2AH C1 49.5AH
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	95.69	73.28	55.16	46.22	28.68	21.72	15.21	13.12	10.45	9.00	4.94
1.75V/cell	107.54	80.59	59.57	49.47	30.43	22.88	15.79	13.59	10.79	9.19	5.04
1.70V/cell	115.78	86.28	63.29	52.37	32.28	23.81	16.26	14.05	11.10	9.39	5.10
1.65V/cell	120.54	89.65	65.50	54.35	33.10	24.62	16.61	14.28	11.28	9.51	5.14
1.60V/cell	130.65	95.92	70.37	57.60	34.49	25.55	17.19	14.63	11.47	9.70	5.23

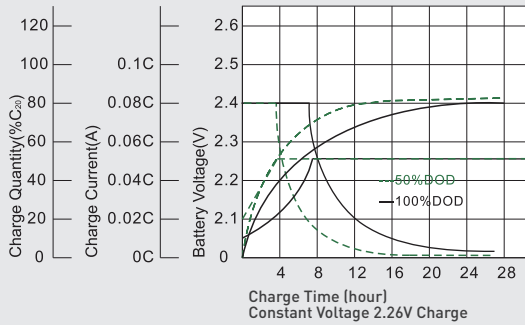
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	180.70	139.82	106.14	89.54	55.86	42.27	29.85	25.90	20.79	17.88	9.84
1.75V/cell	200.79	152.36	113.92	95.34	58.99	44.59	31.01	26.71	21.37	18.23	10.02
1.70V/cell	214.03	161.77	120.08	100.22	62.25	46.34	31.82	27.64	21.95	18.70	10.14
1.65V/cell	220.18	166.30	123.45	103.47	63.64	47.61	32.40	27.99	22.30	18.81	10.23
1.60V/cell	235.97	176.40	131.69	109.28	65.85	49.24	33.33	28.57	22.53	19.16	10.36

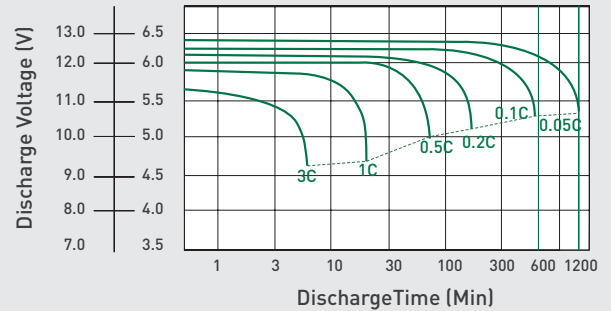
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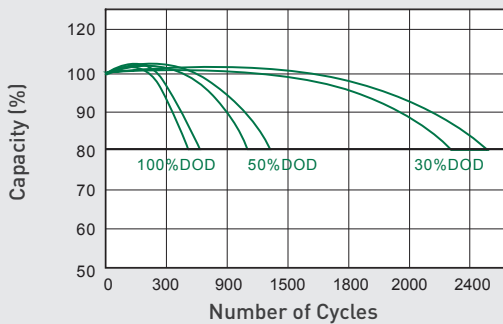
Charge Characteristics for Float Use @ 25°C/77°F



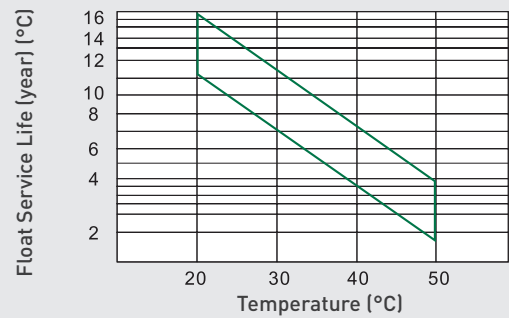
Discharge Characteristics at Various Rates @ 25°C/77°F



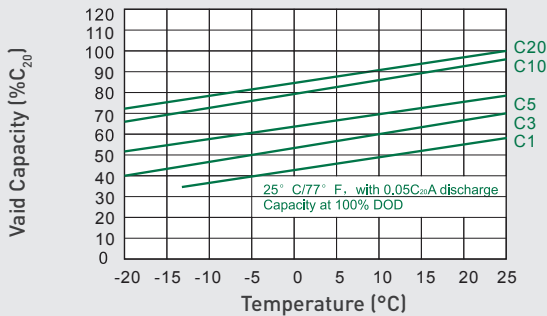
Cycle Life in Relation to Depth of Discharge



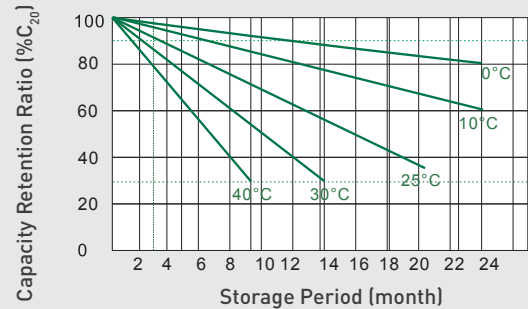
Float Service Life



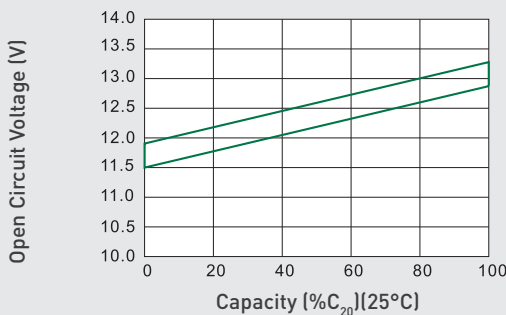
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

