

# 6-FM-5Ah

## Valve-regulated Lead Acid Battery Specification

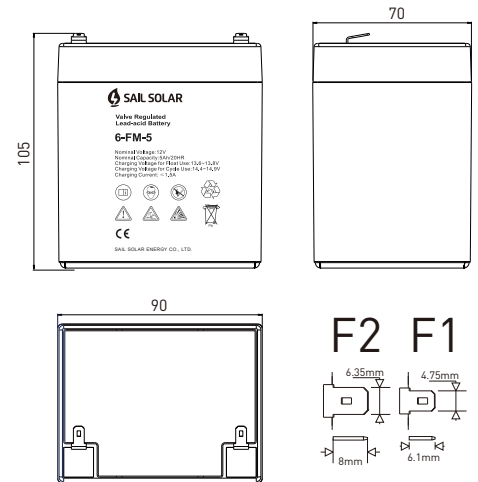
### Features

- 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	5Ah@20hr-rate to 1.80V per cell @25°C
Type	VRLA
Internal Resistance	Approx. 34 mΩ
Terminal	F1 / F2
Max. Discharge Current	75A(5s)
Short Circuit Current	250A
Max. Charging Current	1.5A
Reference Capacity	C20 5.0AH C5 4.2AH C1 2.9AH
Design Life	6-8 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: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~40°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	90±2mm (3.5 inches)
Width	70±1mm (2.8 inches)
Height	101±1mm (4.0 inches)
Total Height	105±1mm (4.1 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	12.78	9.34	7.32	6.19	4.78	3.47	2.81	1.26	0.83	0.47	0.250
1.75V/cell	14.44	10.27	7.99	6.66	4.96	3.60	2.94	1.28	0.86	0.48	0.252
1.70V/cell	15.89	11.22	8.53	7.00	5.17	3.74	3.04	1.31	0.87	0.49	0.257
1.65V/cell	17.44	12.11	9.08	7.43	5.44	3.83	3.11	1.37	0.90	0.50	0.260
1.60V/cell	19.33	13.11	9.70	7.92	5.76	4.00	3.14	1.41	0.92	0.50	0.262

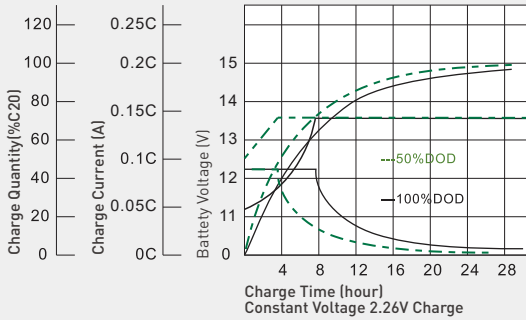
### Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	23.11	17.11	13.44	11.44	8.97	6.62	5.40	2.42	1.61	0.92	0.494
1.75V/cell	25.56	18.44	14.56	12.22	9.23	6.80	5.62	2.47	1.66	0.94	0.499
1.70V/cell	27.33	19.67	15.33	12.78	9.56	7.04	5.79	2.52	1.69	0.96	0.508
1.65V/cell	29.67	21.00	16.11	13.44	10.00	7.16	5.88	2.62	1.73	0.98	0.513
1.60V/cell	32.00	22.33	17.00	14.22	10.48	7.42	5.90	2.69	1.79	0.99	0.516

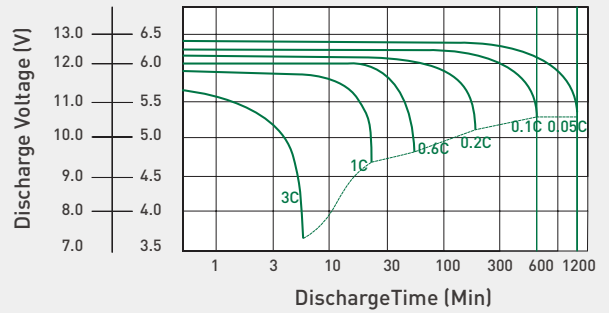
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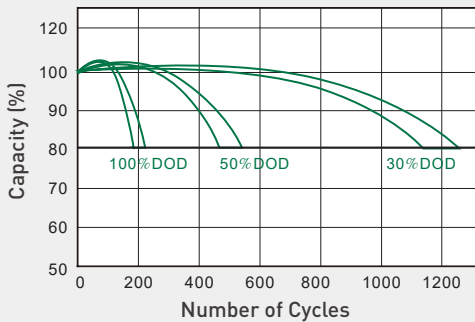
### Charge Characteristics for Float Use @ 25°C/77°F



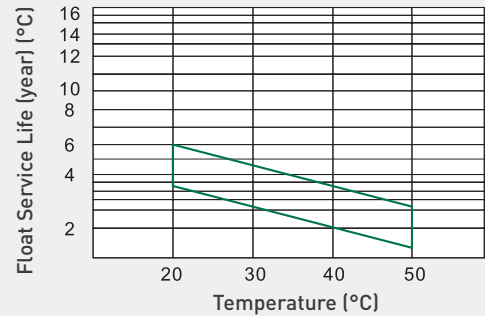
### Discharge Characteristics at Various Rates @ 25°C/77°F



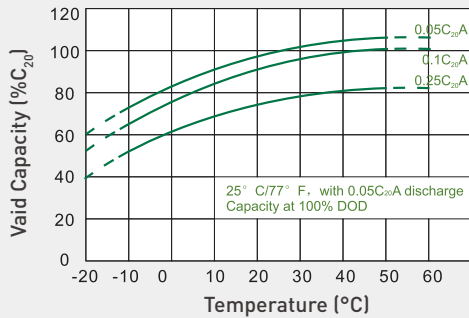
### Cycle Life in Relation to Depth of Discharge



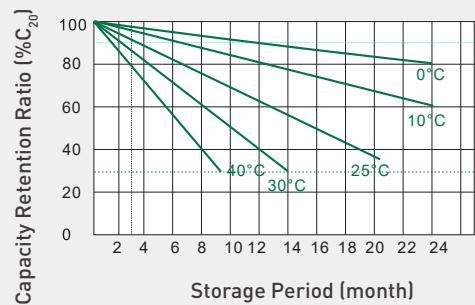
### Float Service Life



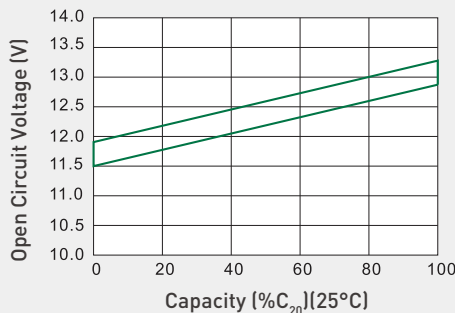
### Temperature and Valid Capacity



### Self Discharge Characteristics



### Capacity and Open Circuit Voltage



### Relationship between Charging Voltage and Temperature

