6FM250G/12Volt 250Ah

General Series Battery

Gel series is specially designed for power supply under extreme weather condition.It can be designed with AGM or PVC separator， by using strong grids, high purity lead and patented Gel electrolyte, With 15-year design life,ait has rapid charging acceptance and floating or cyclic endurance.

Application

- ☆Emergency Power System
- ☆Communication equipment
- ☆Telecommunication systems
- ☆Uninterruptible power supplies
- ☆Electric toy car and wheelchairs, etc
- ☆Power tools
- ☆Alarm system
- ☆Marine equipment
- ☆Medical equipment
- ☆Fire and Security System

General Features

- ☆Heavy Duty Grid
- ☆Mechanized assembly
- ☆Non-spillable construction
- ☆High Reliability and Stability
- ☆Sealed and Maintenance-free
- ☆Long Life and low self-discharge design

Construction

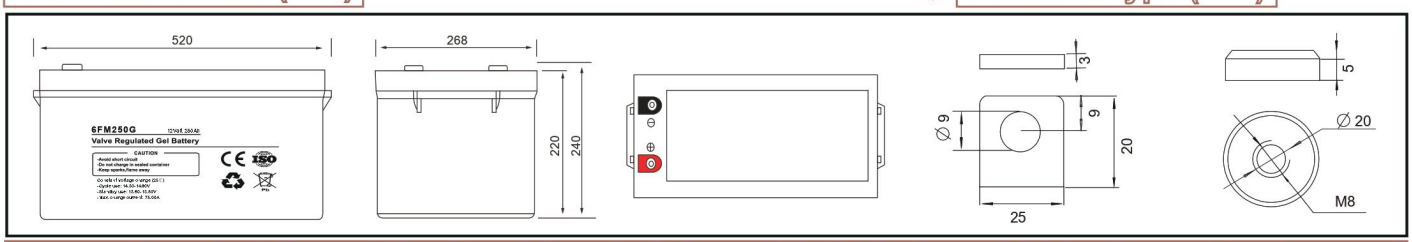
- ☆Positive.....Lead dioxide
- ☆Electrolyte.....Sulfuric acid
- ☆Separator.....AGM or PVC
- ☆Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆Negative.....Lead
- ☆Safety Valve.....EPDR
- ☆Terminal.....Copper

Specification

Battery Model	Nominal Voltage	12V		
	Rated capacity (10Hour rate)	250Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	520mm	260mm	220mm	240mm
Approx Weight	64.50Kg			
Internal Resistance	Full charged at 25℃(77℉): Approx 2.5mΩ			
Max.discharge current	2000A(5s)			
Floating design life @ 25℃ (77℉)	15 years			
Capacity @ 25℃ (77℉)	10Hour rate(25.00A/10.8V)	5Hour rate(42.50A/10.5V)	3Hour rate(62.50A/10.5V)	1Hour rate(137.50A/10.5V)
	250Ah	191Ah	150Ah	96Ah
Capacity affected by Temp(10 HR)	40℃ (104℉)	25℃ (77℉)	0℃ (32℉)	-15℃(5℉)
	102%	100%	85%	65%
Self Discharge @ 25℃ (77℉)	After 3 months storage	After 6 months storage	After 12 months storage	
	93%	84%	65%	
Charge method @ 25℃ (77℉)	Cycle Use	14.50-14.90V (Initial charging current less than 75.00A)		
	Float Use	13.60-13.80V		

Outer dimension (mm)

Terminal Type (mm)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃ (77℉)

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	900.00	550.00	437.50	287.50	151.25	87.50	65.00	52.50	43.85	28.96	27.50	14.25
	W	9540.00	5841.00	4681.25	3105.00	1648.63	953.75	715.00	577.50	482.40	321.44	305.25	160.31
10.20V	A	825.00	527.50	402.08	272.92	150.00	83.96	63.75	50.00	43.02	28.50	26.25	14.00
	W	8992.50	5855.25	4483.23	3070.31	1687.50	948.73	720.38	567.50	488.29	323.48	297.94	158.90
10.50V	A	765.10	504.15	375.00	264.58	145.00	82.29	62.50	47.50	42.50	28.13	25.75	13.83
	W	8416.15	5671.69	4237.50	3016.24	1653.00	942.24	715.63	546.25	488.75	323.44	296.13	158.99
10.80V	A	696.67	499.80	350.00	252.50	142.50	80.21	61.25	46.67	40.63	27.40	25.00	13.65
	W	7663.33	5697.72	4007.50	2916.38	1645.88	926.41	710.50	543.67	473.28	319.16	291.25	159.02
11.10V	A	602.50	475.00	325.00	235.00	137.50	78.13	58.75	45.83	38.85	26.67	24.38	13.50
	W	6808.25	5486.25	3770.00	2749.50	1608.75	914.06	690.31	540.83	458.48	314.67	287.63	159.30

Note: The above datas are average values. (Edition 2017-11)

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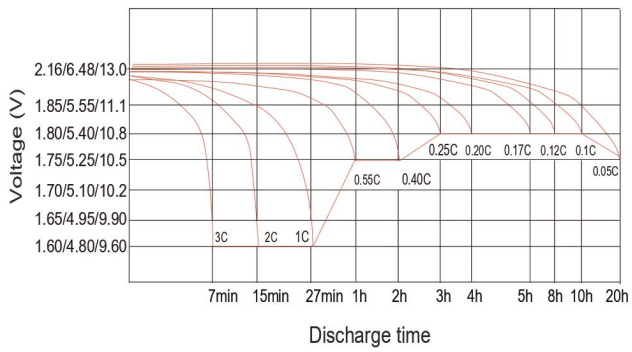
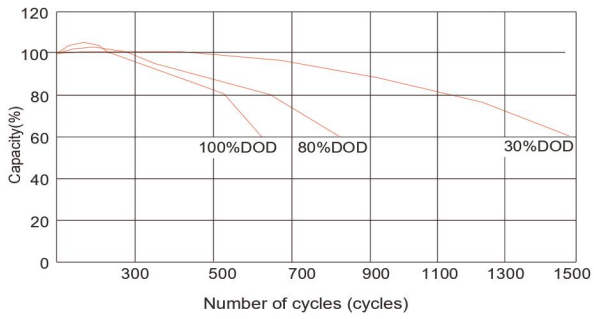
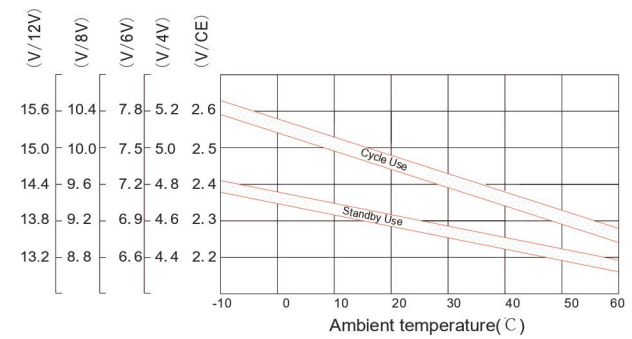
Discharge characteristic Curve



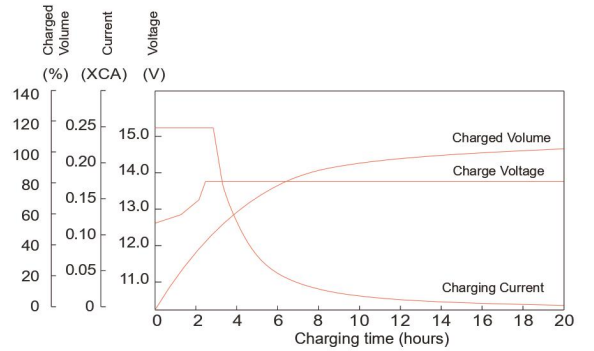
Cycle service life in relation to depth of discharge



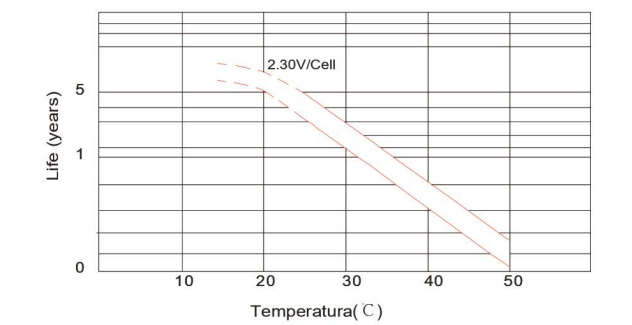
Relationship between charging voltage and temperature



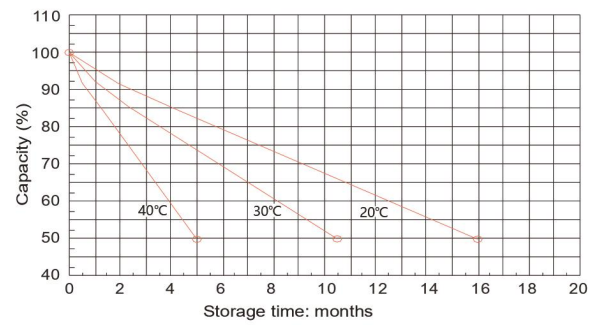
Constant voltage charging characteristic (0.25CA,at 25℃)



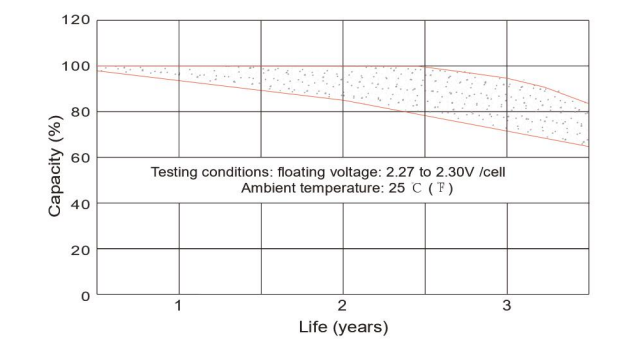
Temperature effects on float life



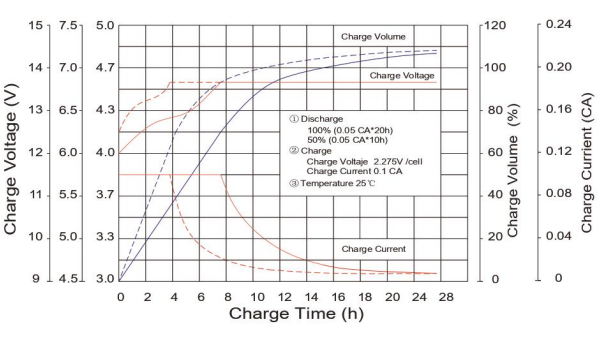
Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use



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