

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, it has rapid charging acceptance and floating or cyclic endurance.

Application

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Solar energy, wind energy storage system
- 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

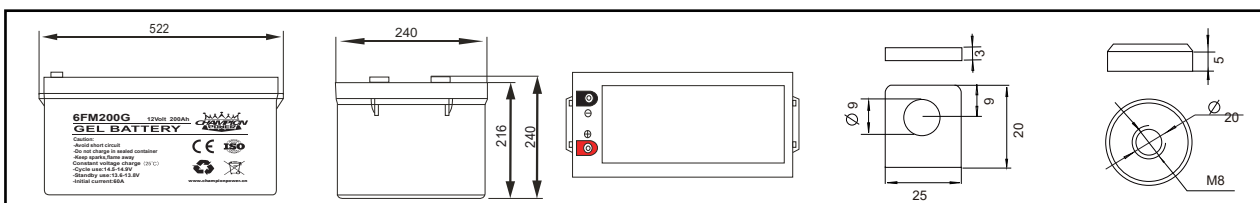
Construction

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

Specification

Battery Model	Nominal Voltage	12V		
	Rated capacity (10Hour rate)	200Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	522mm±1.5	240mm±1.5	216mm±1.5	236mm±2
Approx Weight	60Kg			
Internal Resistance	Full charged at 25°C (77°F): Approx 3.5mΩ			
Max. discharge current	1600A(5s)			
Floating design life @ 25°C (77°F)	15 years			
Capacity @ 25°C (77°F)	10Hour rate(20A/10.8V)	5Hour rate(34A/10.8V)	3Hour rate(50A/10.8V)	1Hour rate(110A/10.5V)
	200Ah	170Ah	150Ah	110Ah
Capacity affected by Temp(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @ 25°C (77°F)	After 3 months storage	After 6 months storage	After 12 months storage	
	91%	82%	64%	
Charge method @ 25°C (77°F)	Cycle Use	14.5-14.9V (Initial charging current less than 60A)		
	Float Use	13.6-13.8V		

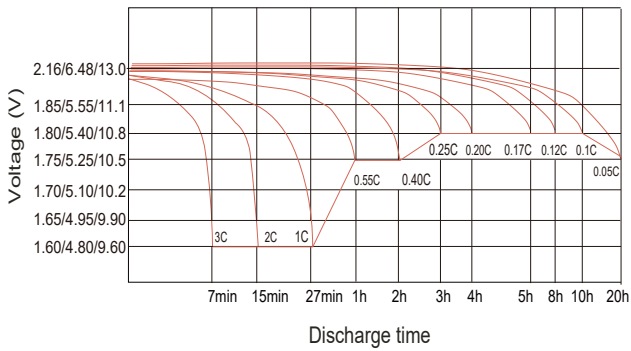
Outer Dimension(mm) Terminal Type(mm)



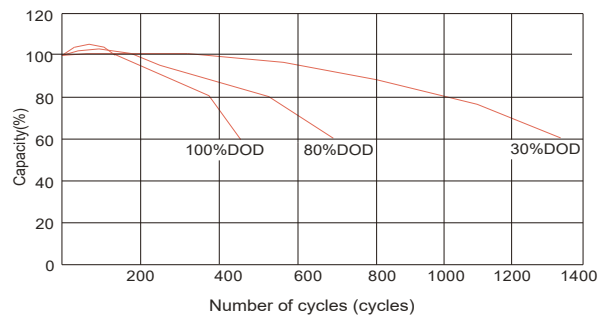
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	720.00	440.00	350.00	230.00	120.00	70.00	52.00	42.00	35.08	23.17	22.00	11.40
	W	7632.00	4672.80	3745.00	2484.00	1308.00	763.00	572.00	462.00	385.92	257.15	244.20	128.25
10.20V	A	660.00	441.67	321.67	218.33	124.00	67.17	51.00	40.00	34.42	22.80	21.00	11.20
	W	7194.00	4902.50	3586.58	2456.25	1395.00	758.98	576.30	454.00	390.63	258.78	238.35	127.12
10.50V	A	612.08	422.00	300.00	211.67	120.00	65.83	50.00	38.00	34.00	22.50	20.60	11.06
	W	6732.92	4747.50	3390.00	2412.99	1368.00	753.79	572.50	437.00	391.00	258.75	236.90	127.19
10.80V	A	557.33	403.33	280.00	202.00	116.00	64.17	49.00	37.33	32.50	21.92	20.00	10.92
	W	6130.67	4598.00	3206.00	2333.10	1339.80	741.12	568.40	434.93	378.63	255.33	233.00	127.22
11.10V	A	482.00	380.00	260.00	188.00	110.00	62.50	47.00	36.67	31.08	21.33	19.50	10.80
	W	5446.60	4389.00	3016.00	2199.60	1287.00	731.25	552.25	432.67	366.78	251.73	230.10	127.44

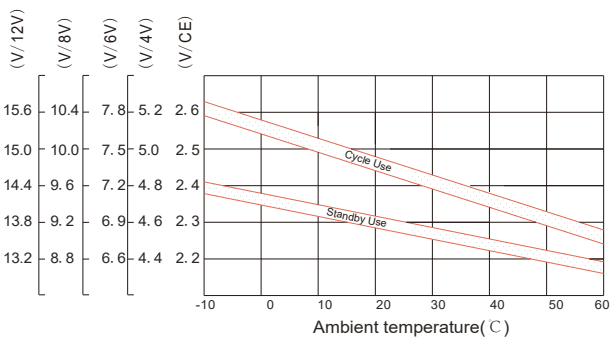
Discharge characteristic Curve



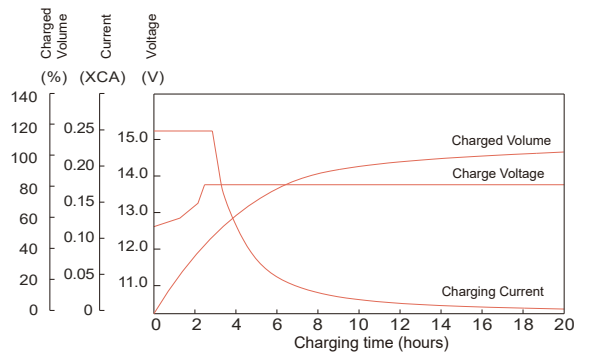
Cycle service life in relation to depth of discharge



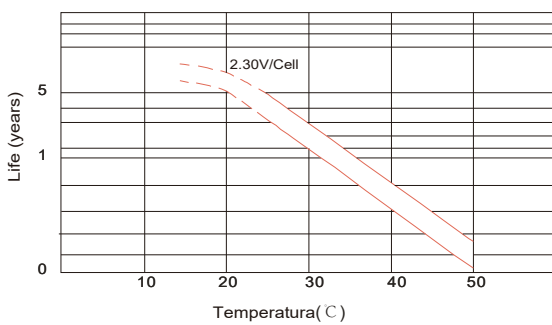
Relationship between charging voltage and temperature



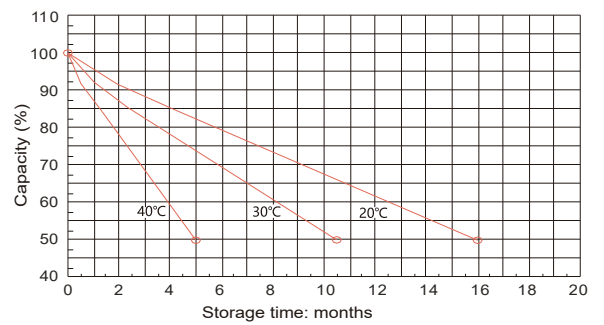
Constant voltage charging characteristic (0.25CA, at 25°C)



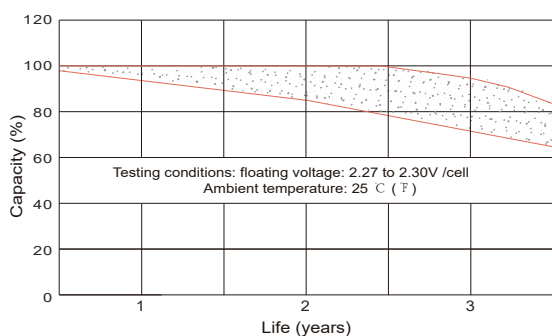
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic for standby use

