



Deep Cycle Batteries

6FM100D/12Volt 100Ah

Deep cycle Series Battery is specially designed for frequent cycling applications. The series battery uses high-tin alloy positive plate, active paste materials and stronger electrolyte, which gives 30% longer life than normal battery. Suitable for solar and wind energy systems.



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

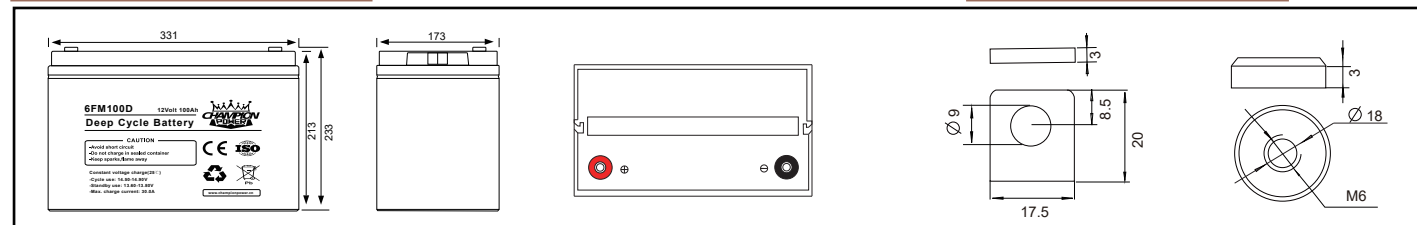
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	100Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	331mm	173mm	213mm	233mm	
Approx Weight	29.00Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 5.0mΩ				
Max. discharge current	800A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(10A/10.8V)	5Hour rate(17A/10.5V)	3Hour rate(25A/10.5V)	1Hour rate(55A/10.5V)	
	100Ah	77Ah	60Ah	39Ah	
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
	93%		84%		65%
Charge method @ 25°C (77°F)	Cycle Use	14.50-14.90V (Initial charging current less than 30.0A)			
	Float Use	13.60-13.80V			

Outer dimension (mm)

Terminal Type (mm)



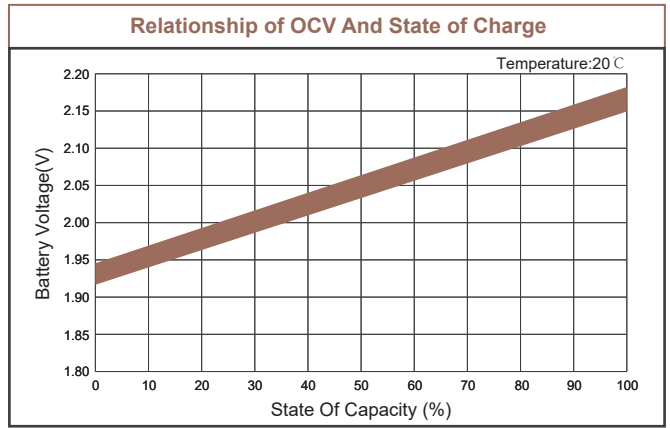
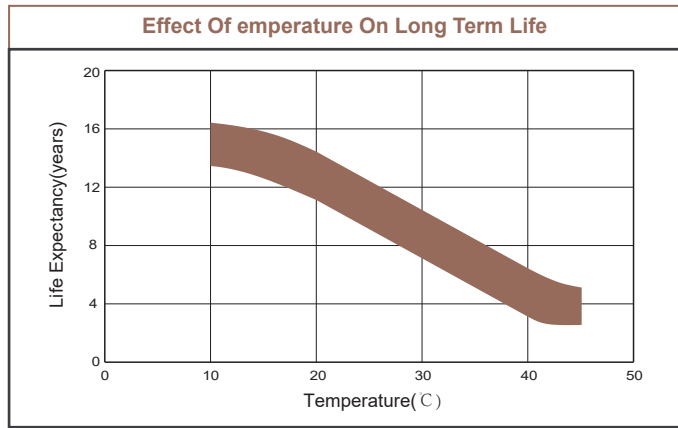
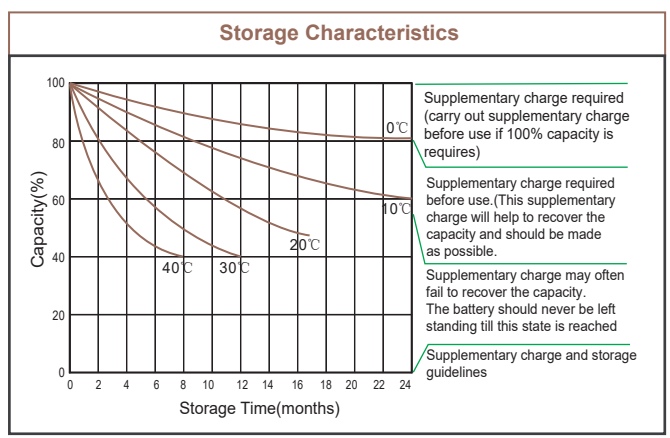
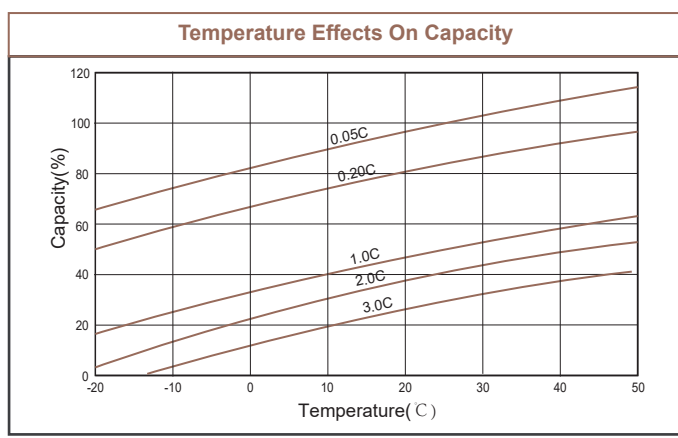
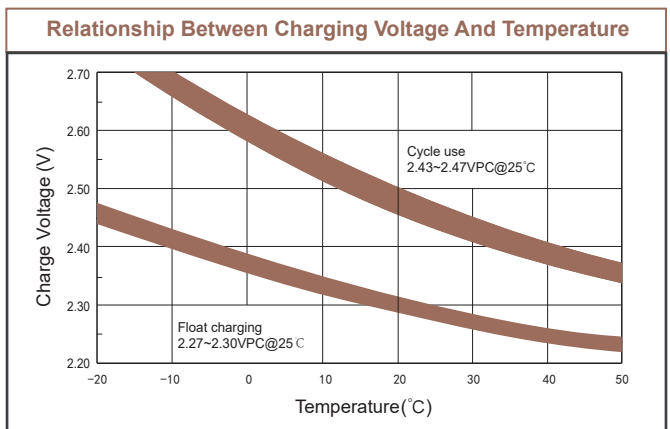
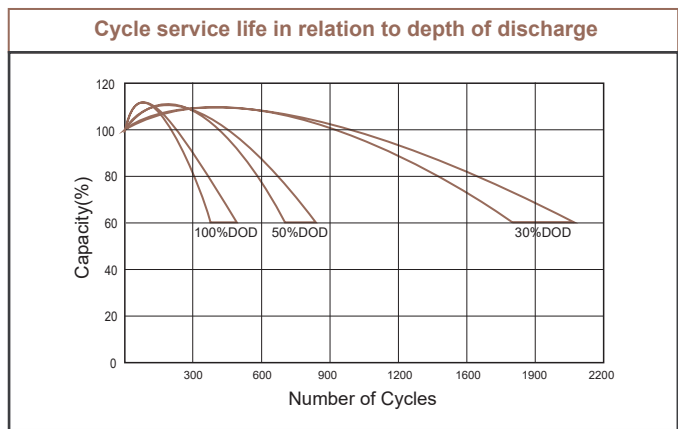
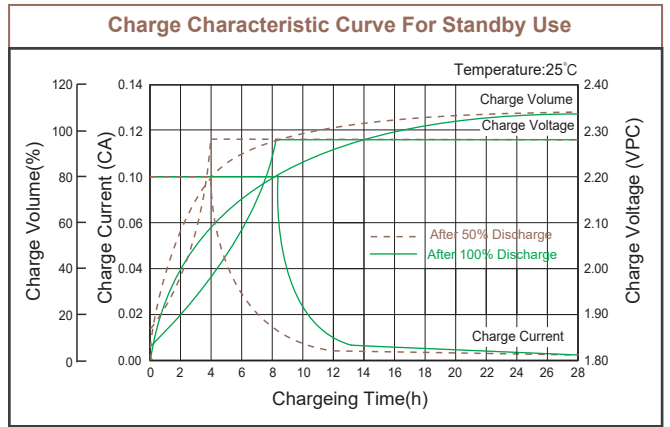
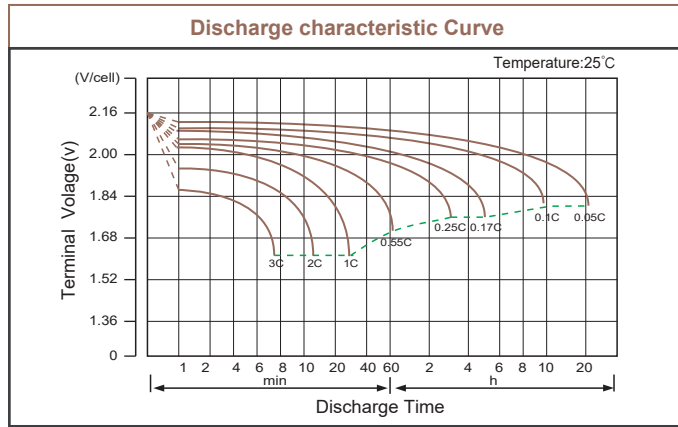
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	360.00	220.00	175.00	115.00	60.50	35.00	26.00	21.00	17.54	11.58	11.00	5.70
	W	3816.00	2336.40	1872.50	1242.00	659.45	381.50	286.00	231.00	192.96	128.57	122.10	64.13
10.20V	A	330.00	211.00	160.83	109.17	60.00	33.58	25.50	20.00	17.21	11.40	10.50	5.60
	W	3597.00	2342.10	1793.29	1228.13	675.00	379.49	288.15	227.00	195.31	129.39	119.18	63.56
10.50V	A	306.04	201.66	150.00	105.83	58.00	32.92	25.00	19.00	17.00	11.25	10.30	5.53
	W	3366.46	2268.68	1695.00	1206.50	661.20	376.90	286.25	218.50	195.50	129.38	118.45	63.60
10.80V	A	278.67	199.92	140.00	101.00	57.00	32.08	24.50	18.67	16.25	10.96	10.00	5.46
	W	3065.33	2279.09	1603.00	1166.55	658.35	370.56	284.20	217.47	189.31	127.66	116.50	63.61
11.10V	A	241.00	190.00	130.00	94.00	55.00	31.25	23.50	18.33	15.54	10.67	9.75	5.40
	W	2723.30	2194.50	1508.00	1099.80	643.50	365.63	276.13	216.33	183.39	125.87	115.05	63.72

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



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