



## Deep Cycle Batteries

## 6FM250D/12Volt 250Ah

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

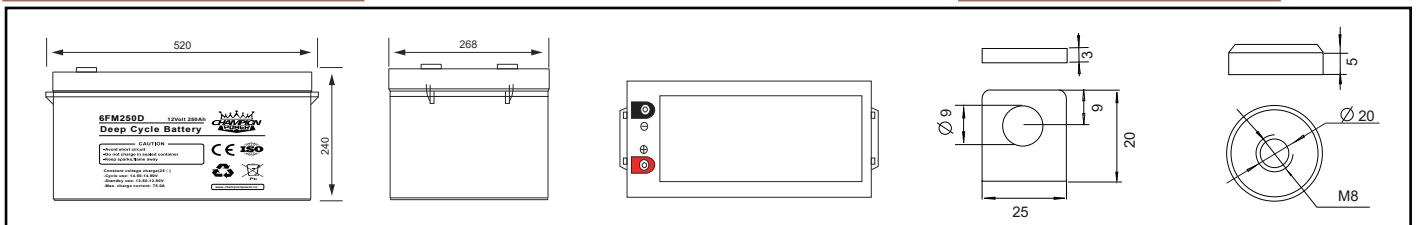
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

## Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	250Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	520mm	268mm	220mm	240mm	
Approx Weight	65.00Kg				
Internal Resistance	Full charged at 25°C(77°F): Approx 2.0mΩ				
Max.discharge current	2000A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(25A/10.8V)	5Hour rate(42.5A/10.5V)	3Hour rate(62.5A/10.5V)	1Hour rate(137.5A/10.5V)	
	250Ah	191Ah	150Ah	96Ah	
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 75.0A)			
	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	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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