



## Deep Cycle Batteries

## 6FM50D/12Volt 50Ah



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

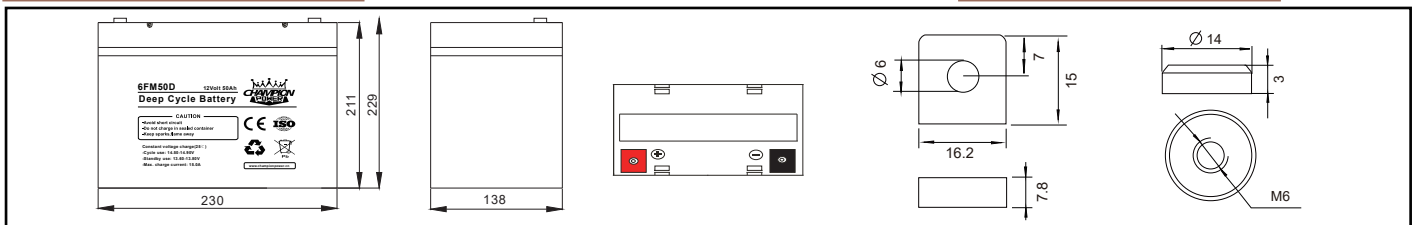
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

### Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	50Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	230mm	138mm	211mm	229mm	
Approx Weight	15.50Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 6.00mΩ				
Max. discharge current	400A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(5A/10.8V)	5Hour rate(8.5A/10.5V)	3Hour rate(12.5A/10.5V)	1Hour rate(27.5A/10.5V)	
	50Ah	38Ah	30Ah	19Ah	
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 15.0A)			
	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	180.00	110.00	87.50	57.50	30.25	17.50	13.00	10.50	8.77	5.79	5.50	2.85
	W	1908.00	1168.20	936.25	621.00	329.73	190.75	143.00	115.50	96.48	64.29	61.05	32.06
10.20V	A	165.00	105.50	80.42	54.58	30.00	16.79	12.75	10.00	8.60	5.70	5.25	2.80
	W	1798.50	1171.05	896.65	614.06	337.50	189.75	144.08	113.50	97.66	64.70	59.59	31.78
10.50V	A	153.02	100.83	75.00	52.92	29.00	16.46	12.50	9.50	8.50	5.63	5.15	2.77
	W	1683.23	1134.34	847.50	603.25	330.60	188.45	143.13	109.25	97.75	64.69	59.23	31.80
10.80V	A	139.33	99.96	70.00	50.50	28.50	16.04	12.25	9.33	8.13	5.48	5.00	2.73
	W	1532.67	1139.54	801.50	583.28	329.18	185.28	142.10	108.73	94.66	63.83	58.25	31.80
11.10V	A	120.50	95.00	65.00	47.00	27.50	15.63	11.75	9.17	7.77	5.33	4.88	2.70
	W	1361.65	1097.25	754.00	549.90	321.75	182.81	138.06	108.17	91.70	62.93	57.53	31.86



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