



Deep Cycle Batteries

6FM55D/12Volt 55Ah



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

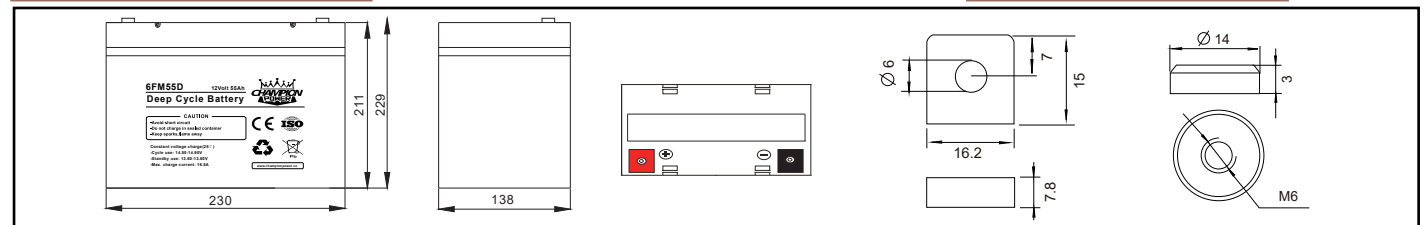
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	55Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	230mm	138mm	211mm	229mm	
Approx Weight	17.00Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 6.00mΩ				
Max. discharge current	440A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(5.5A/10.8V)	5Hour rate(9.35A/10.5V)	3Hour rate(13.75A/10.5V)	1Hour rate(30.25A/10.5V)	
	55Ah	42Ah	33Ah	21Ah	
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	198.00	121.00	96.25	63.25	33.28	19.25	14.30	11.55	9.65	6.37	6.05	3.14
	W	2098.80	1285.02	1029.88	683.10	362.70	209.83	157.30	127.05	106.13	70.72	67.16	35.27
10.20V	A	181.50	116.05	88.46	60.04	33.00	18.47	14.03	11.00	9.46	6.27	5.78	3.08
	W	1978.35	1288.16	986.31	675.47	371.25	208.72	158.48	124.85	107.42	71.16	65.55	34.96
10.50V	A	168.32	110.91	82.50	58.21	31.90	18.10	13.75	10.45	9.35	6.19	5.67	3.04
	W	1851.55	1247.77	932.25	663.57	363.66	207.29	157.44	120.18	107.53	71.16	65.15	34.98
10.80V	A	153.27	109.96	77.00	55.55	31.35	17.65	13.48	10.27	8.94	6.03	5.50	3.00
	W	1685.93	1253.50	881.65	641.60	362.09	203.81	156.31	119.61	104.12	70.22	64.08	34.98
11.10V	A	132.55	104.50	71.50	51.70	30.25	17.19	12.93	10.08	8.55	5.87	5.36	2.97
	W	1497.82	1206.98	829.40	604.89	353.93	201.09	151.87	118.98	100.87	69.23	63.28	35.05



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