

## Deep Cycle Batteries

## 6FM35D/12Volt 35Ah

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

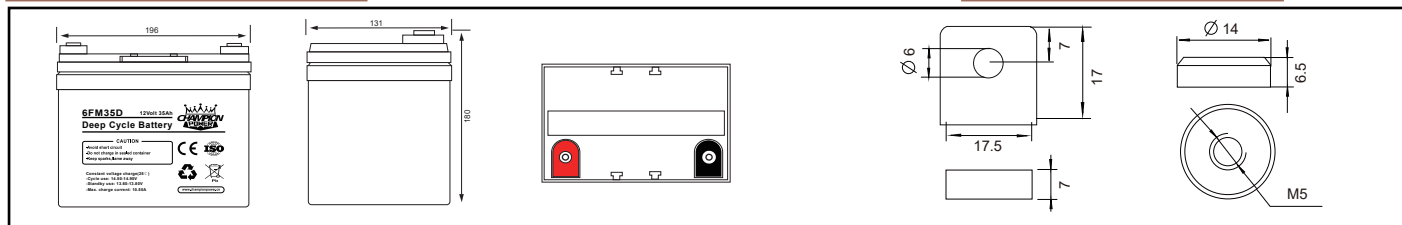
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

## Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	35Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	196mm	130mm	163mm	179mm	
Approx Weight	10.50Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 10.50mΩ				
Max. discharge current	280A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(3.5A/10.8V)	5Hour rate(5.95A/10.5V)	3Hour rate(8.75A/10.5V)	1Hour rate(19.25A/10.5V)	
	35Ah	27Ah	21Ah	13Ah	
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 10.5A)			
	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	126.00	77.00	61.25	40.25	21.18	12.25	9.10	7.35	6.14	4.05	3.85	2.00
	W	1335.60	817.74	655.38	434.70	230.81	133.53	100.10	80.85	67.54	45.00	42.74	22.44
10.20V	A	115.50	73.85	56.29	38.21	21.00	11.75	8.93	7.00	6.02	3.99	3.68	1.96
	W	1258.95	819.74	627.65	429.84	236.25	132.82	100.85	79.45	68.36	45.29	41.71	22.25
10.50V	A	107.11	70.58	52.50	37.04	20.30	11.52	8.75	6.65	5.95	3.94	3.61	1.94
	W	1178.26	794.04	593.25	422.27	231.42	131.91	100.19	76.48	68.43	45.28	41.46	22.26
10.80V	A	97.53	69.97	49.00	35.35	19.95	11.23	8.58	6.53	5.69	3.84	3.50	1.91
	W	1072.87	797.68	561.05	408.29	230.42	129.70	99.47	76.11	66.26	44.68	40.78	22.26
11.10V	A	84.35	66.50	45.50	32.90	19.25	10.94	8.23	6.42	5.44	3.73	3.41	1.89
	W	953.16	768.08	527.80	384.93	225.23	127.97	96.64	75.72	64.19	44.05	40.27	22.30



## 6FM35D/12Volt 35Ah

