

6FM40D/12Volt 40Ah

Deep Cycle Batteries

Deep cycle Series Battery is specially designed for frequent cycling applications. The series battery uses high-tin alloy positive plate, active 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

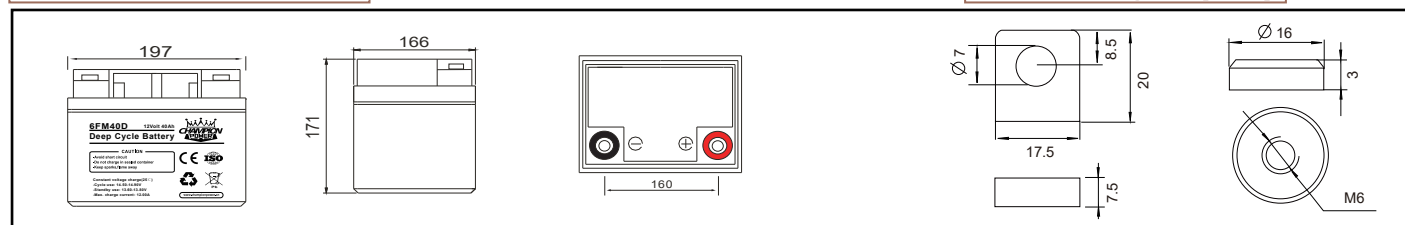
Construction

- ☆ 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)	40Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	199mm	166mm	171mm	171mm	
Approx Weight	12.90Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 9.50mΩ				
Max. discharge current	320A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(4A/10.8V)	5Hour rate(6.8A/10.5V)	3Hour rate(10A/10.5V)	1Hour rate(22A/10.5V)	
	40Ah	31Ah	24Ah	15Ah	
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 12.0A)			
	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	144.00	88.00	70.00	46.00	24.20	14.00	10.40	8.40	7.02	4.63	4.40	2.28
	W	1526.40	934.56	749.00	496.80	263.78	152.60	114.40	92.40	77.18	51.43	48.84	25.65
10.20V	A	132.00	84.40	64.33	43.67	24.00	13.43	10.20	8.00	6.88	4.56	4.20	2.24
	W	1438.80	936.84	717.32	491.25	270.00	151.80	115.26	90.80	78.13	51.76	47.67	25.42
10.50V	A	122.42	80.66	60.00	42.33	23.20	13.17	10.00	7.60	6.80	4.50	4.12	2.21
	W	1346.58	907.47	678.00	482.60	264.48	150.76	114.50	87.40	78.20	51.75	47.38	25.44
10.80V	A	111.47	79.97	56.00	40.40	22.80	12.83	9.80	7.47	6.50	4.38	4.00	2.18
	W	1226.13	911.64	641.20	466.62	263.34	148.22	113.68	86.99	75.73	51.07	46.60	25.44
11.10V	A	96.40	76.00	52.00	37.60	22.00	12.50	9.40	7.33	6.22	4.27	3.90	2.16
	W	1089.32	877.80	603.20	439.92	257.40	146.25	110.45	86.53	73.36	50.35	46.02	25.49



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