

Deep Cycle Batteries

6FM33D/12Volt 33Ah

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

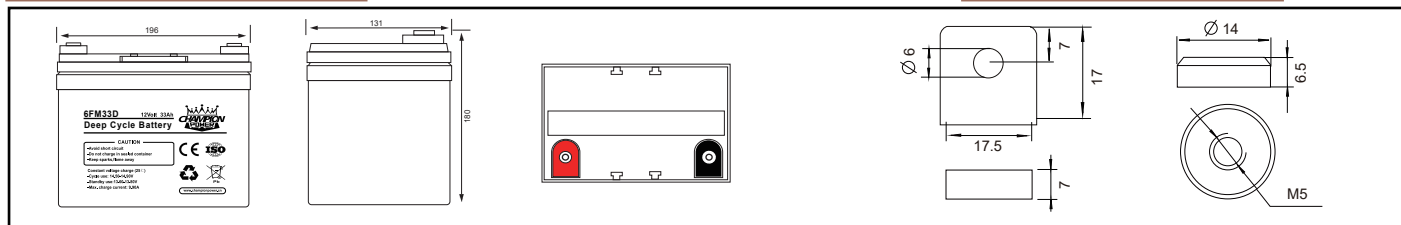
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		33Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	196mm	130mm	163mm	179mm
Approx Weight	9.80Kg			
Internal Resistance	Full charged at 25°C(77°F): Approx 10.50mΩ			
Max.discharge current	264A(5s)			
Floating design life @ 25°C (77°F)	15 years			
Capacity @ 25°C (77°F)	10Hour rate(3.30A/10.8V)	5Hour rate(5.61A/10.5V)	3Hour rate(8.25A/10.5V)	1Hour rate(18.15A/10.5V)
	33Ah	25Ah	20Ah	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 12 months storage	
	93%		65%	
	After 6 months storage		After 12 months storage	
Charge method @ 25°C (77°F)	14.50-14.90V (Initial charging current less than 9.90A)			
	Cycle Use		13.60-13.80V	
	Float Use			

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	118.80	72.60	57.75	37.95	19.97	11.55	8.58	6.93	5.79	3.82	3.63	1.88
	W	1259.28	771.01	617.93	409.86	217.62	125.90	94.38	76.23	63.68	42.43	40.29	21.16
10.20V	A	108.90	69.63	53.07	36.03	19.80	11.08	8.42	6.60	5.68	3.76	3.47	1.85
	W	1187.01	772.89	591.79	405.28	222.75	125.23	95.09	74.91	64.45	42.70	39.33	20.97
10.50V	A	100.99	66.55	49.50	34.92	19.14	10.86	8.25	6.27	5.61	3.71	3.40	1.82
	W	1110.93	748.66	559.35	398.14	218.20	124.38	94.46	72.11	64.52	42.69	39.09	20.99
10.80V	A	91.96	65.97	46.20	33.33	18.81	10.59	8.09	6.16	5.36	3.62	3.30	1.80
	W	1011.56	752.10	528.99	384.96	217.26	122.29	93.79	71.76	62.47	42.13	38.45	20.99
11.10V	A	79.53	62.70	42.90	31.02	18.15	10.31	7.76	6.05	5.13	3.52	3.22	1.78
	W	898.69	724.19	497.64	362.93	212.36	120.66	91.12	71.39	60.52	41.54	37.97	21.03



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