

Sealed Lead Acid Battery

Sealed Lead Acid batteries are designed with AGM(Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. Sealed Lead Acid Batteries are the general purpose batteries with 5 years floating design life at 25°C.

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

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

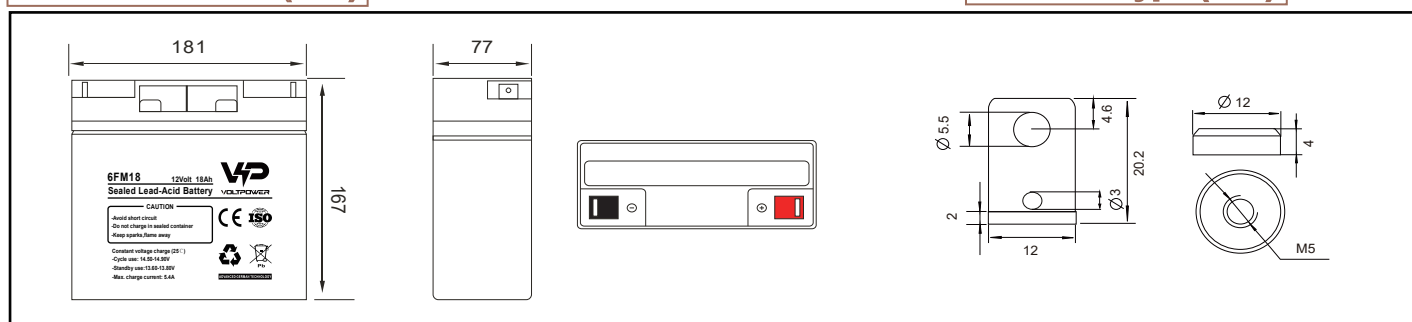


6FM18/12V 18Ah

Specification

Battery Model	Nominal Voltage	12V		
	Rated capacity (20Hour rate)	18Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	181mm	77mm	167mm	167mm
Approx Weight	5.10Kg			
Internal Resistance	Full charged at 25℃(77℉): Approx 14mΩ			
Max.discharge current	270A(5s)			
Floating design life @ 25℃ (77℉)	5 years			
Capacity @ 25℃ (77℉)	20Hour rate(0.9A/10.5V)	10Hour rate(1.62A/10.5V)	5Hour rate(2.91A/10.5V)	1Hour rate(10.8A/10.5V)
	18Ah	16.2Ah	14.6Ah	10.8Ah
Capacity affected by Temp(20 HR)	40℃ (104℉)	25℃ (77℉)	0℃ (32℉)	-15℃(5℉)
	102%	100%	85%	65%
Self Discharge @ 25℃ (77℉)	After 3 months storage	After 6 months storage	After 12 months storage	
	91%	82%	64%	
Charge method @ 25℃ (77℉)	Cycle Use	14.5-14.9V (Initial charging current less than 5.40 A)		
	Float Use	13.6-13.8V		

Outer dimension (mm)

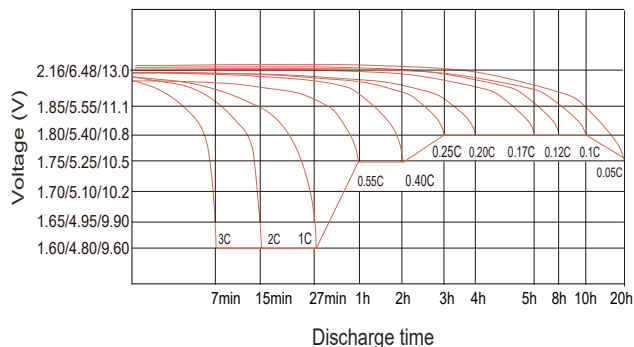
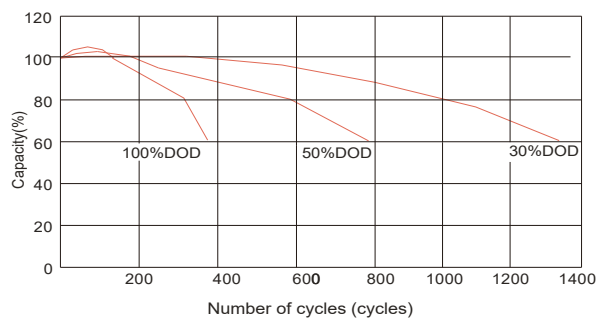
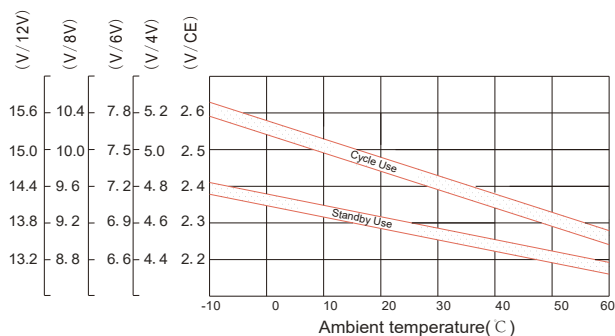
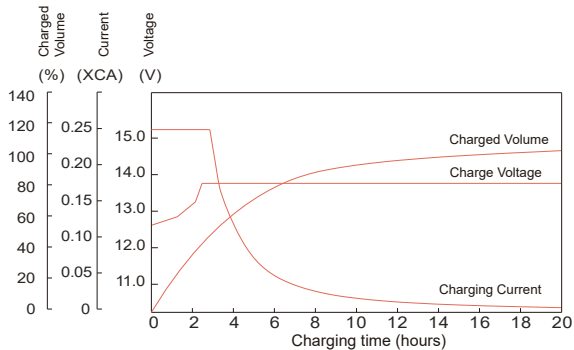
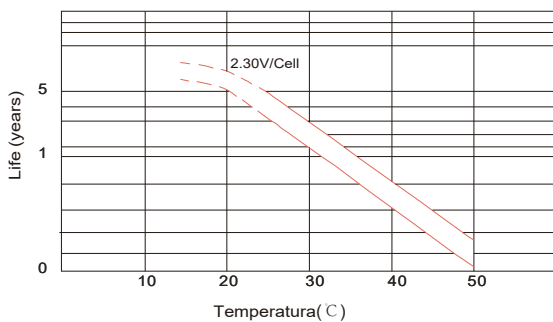
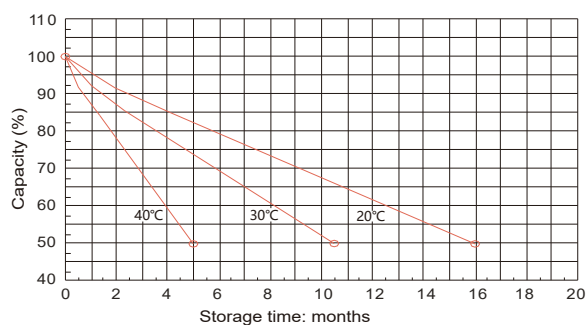
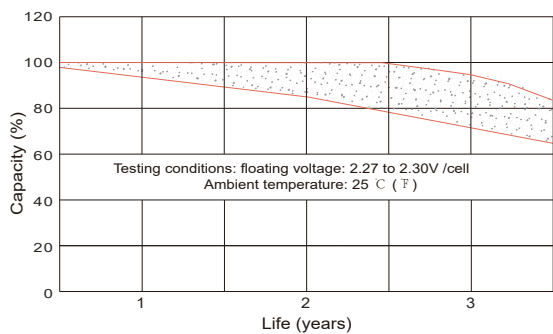


Terminal Type (mm)

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	65.23	50.78	37.19	21.31	11.84	7.25	5.45	4.42	3.16	2.08	1.71	0.92
	W	691.46	539.26	397.91	230.17	129.10	79.07	59.99	48.57	34.73	23.14	18.98	10.33
10.20V	A	59.35	44.46	33.30	19.44	11.16	6.76	5.15	4.18	3.10	2.05	1.67	0.91
	W	646.87	493.51	371.30	218.70	125.55	76.44	58.17	47.40	35.16	23.29	18.98	10.31
10.50V	A	54.55	40.48	30.96	18.86	10.80	6.56	4.99	4.07	3.06	2.03	1.66	0.90
	W	600.04	455.40	349.85	214.98	123.12	75.05	57.09	46.78	35.19	23.29	19.04	10.35
10.80V	A	49.66	36.74	28.62	18.00	10.44	6.31	4.84	3.94	2.93	1.97	1.61	0.88
	W	546.24	418.81	327.70	207.88	120.58	72.94	56.17	45.92	34.08	22.98	18.79	10.22
11.10V	A	42.95	33.86	23.17	16.75	9.90	5.63	4.23	3.30	2.80	1.92	1.58	0.86
	W	485.29	391.06	268.73	195.98	115.83	65.81	49.70	38.94	33.01	22.66	18.59	10.09

Note: The above datas are average values. (Edition 2017-11)

Discharge characteristic Curve

Cycle service life in relation to depth of discharge

Relationship between charging voltage and temperature

Constant voltage charging characteristic (0.25CA, at 25°C)

Temperature effects on float life

Self-discharge characteristic

Life characteristics of standby use

Charge characteristic Curve for standby use
