



## 6FM38/12Volt 38Ah

### General Series Battery

General Series VRLA batteries are designed with AGM(Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. General Series Batteries are the general purpose batteries with 10 years floating design life at 25 C.



### 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

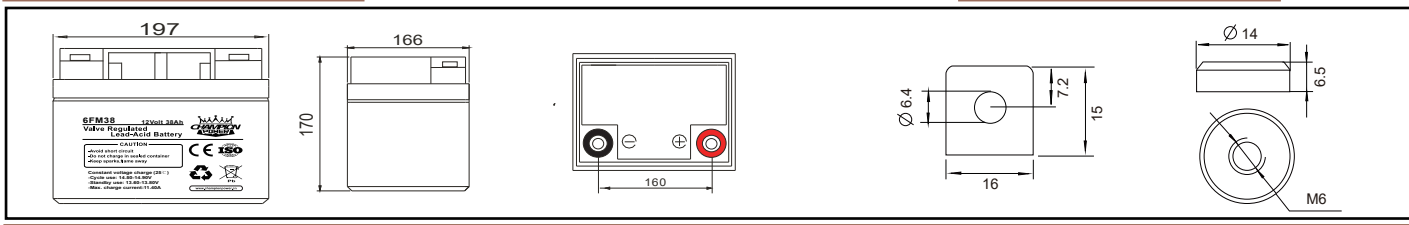
- ☆Positive.....Lead dioxide
- ☆Electrolyte.....Sulfuric acid
- ☆Separator.....Fiber glass
- ☆Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆Negative.....Lead
- ☆Safety Valve.....EPDR
- ☆Terminal.....Copper

### Specification

Battery Model	Nominal Voltage		12V		
	Rated capacity (10Hour rate)		38Ah		
	Cells Per battery		6		
Dimension	Length	Width	Height	Total Height	
	199mm	166mm	170mm	170mm	
Approx Weight	11.80Kg				
Internal Resistance	Full charged at 25°C(77°F): Approx 9.5mΩ				
Max.discharge current	304A(5s)				
Floating design life @ 25°C (77°F)	10 years				
Capacity @ 25°C (77°F)	10Hour rate(3.8A/10.8V)	5Hour rate(5.49A/10.5V)	3Hour rate(7.12A/10.5V)	1Hour rate(14.63A/10.5V)	
	38Ah	27.45Ah	21.37Ah	14.63Ah	
Capacity affected by Temp(10 HR)	40°C (104°F)		25°C (77°F)		0°C (32°F)
	102%		100%		85%
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		14.5-14.9V (Initial charging current less than 11.4A)		
	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	136.80	83.60	66.50	43.70	22.80	13.30	9.88	7.98	6.67	4.40	4.18	2.17
	W	1450.08	887.83	711.55	471.96	248.52	144.97	108.68	87.78	73.32	48.86	46.40	24.37
10.20V	A	125.40	83.92	61.12	41.48	23.56	12.76	9.69	7.60	6.54	4.33	3.99	2.13
	W	1366.86	931.47	681.45	466.69	265.05	144.21	109.50	86.26	74.22	49.17	45.29	24.15
10.50V	A	116.30	80.18	57.00	40.22	22.80	12.51	9.50	7.22	6.46	4.28	3.91	2.10
	W	1279.25	902.03	644.10	458.47	259.92	143.22	108.78	83.03	74.29	49.16	45.01	24.17
10.80V	A	105.89	76.63	53.20	38.38	22.04	12.19	9.31	7.09	6.18	4.16	3.80	2.07
	W	1164.83	873.62	609.14	443.29	254.56	140.81	108.00	82.64	71.94	48.51	44.27	24.17
11.10V	A	91.58	72.20	49.40	35.72	20.90	11.88	8.93	6.97	5.91	4.05	3.71	2.05
	W	1034.85	833.91	573.04	417.92	244.53	138.94	104.93	82.21	69.69	47.83	43.72	24.21

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



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