

### Overview

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special oneway valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

### Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### General Features

- Advanced pure lead technology.
- Longer float & cycle life.
- Stronger discharge performance.
- Special design to avoid thermal runaway.
- Excellent consistency and reliability.
- Can be mounted in any orientation.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame restardant ABS.

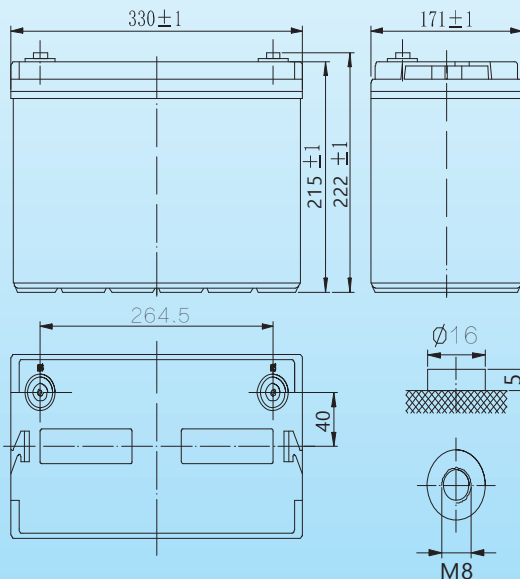
### Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (10.0A, 10.8V)	100Ah
5 hour rate (17.8A, 10.5V)	89.0Ah
1 hour rate (65.3A, 9.6V)	65.3Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤5.7 mOhms
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	900A(5s)
Short Circuit Current	2200A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30.0A
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

### Dimensions and Weight

Length(mm / inch)	330/12.99
Width(mm / inch)	171/6.73
Height(mm / inch)	215/8.46
Total Height(mm / inch)	222/8.74
Approx. Weight(Kg / lbs)	29 /63.9

\* Weight deviation: ± 5%



### Discharge Constant Current (Amperes at 77°F25°C)

End Point	Volts/Cell										
	10min	15min	30min	1h	3h	5h	8h	10h	12h	20h	
1.60V	233	192	108	65.3	26.8	18.8	11.75	10.4	8.83	5.46	
1.65V	218	182	105	64.2	26.2	18.5	11.56	10.3	8.75	5.43	
1.70V	202	173	101	63.2	25.7	18.2	11.38	10.2	8.67	5.40	
1.75V	188	161	97.5	62.1	25.1	17.8	11.13	10.1	8.58	5.35	
1.80V	173	150	95.5	61.2	24.4	17.4	10.88	10.0	8.50	5.35	

### Discharge Constant Power (Watts at 77°F25°C)

End Point	Volts/Cell										
	10min	15min	30min	1h	3h	5h	8h	10h	12h	20h	
1.60V	406	332	204	130	51.7	36.1	22.56	19.97	16.95	10.48	
1.65V	386	327	198	128	51.2	35.9	22.20	19.78	16.80	10.43	
1.70V	365	316	192	127	50.6	35.7	21.85	19.58	16.65	10.37	
1.75V	346	305	186	123	50.0	35.5	21.37	19.39	16.47	10.27	
1.80V	324	294	180	119	49.1	35.1	20.89	19.20	16.32	10.27	

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.



**VISION GROUP**  
Shenzhen Center Power  
Tech.Co.Ltd.,

# 6FM100E-X

12V 100Ah(10hr)

