



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

# 3FM200D-X

6V 200Ah

## 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

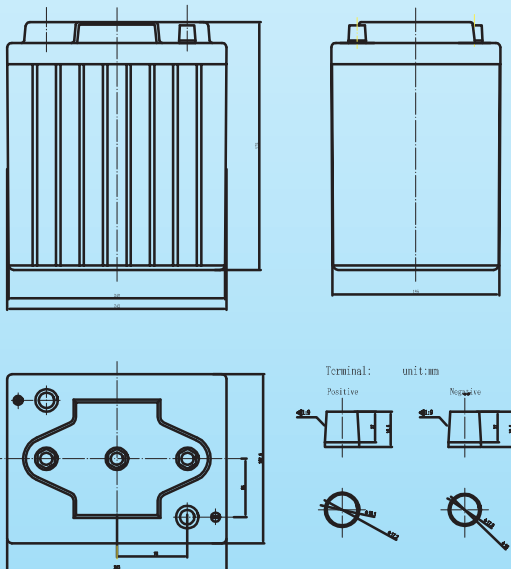
## General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame retardant ABS.

## Dimensions and Weight

Length(mm / inch)	240 / 9.45
Width(mm / inch)	185 / 7.28
Height(mm / inch)	275 / 10.83
Total Height(mm / inch)	275 / 10.83
Approx. Weight(Kg / lbs)	32.5 / 71.69

\* Weight deviation:  $\pm 3\%$



## Battery Specification

Performance Characteristics	
Nominal Voltage	6V
Number of cell	3
Design Life	10 years
Nominal Capacity 77°F(25°C)	
20 hour rate (20.0A, 5.4V)	200Ah
10 hour rate (36.7A, 5.25V)	183.5Ah
1 hour rate (131A, 4.8V)	131Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 2.0$ 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)	1000A(5s)
Short Circuit Current	4200A

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

End Point										
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h	
1.60V	390	322	207	159	131	58.2	38.7	20.4	10.8	
1.65V	366	305	201	154	128	57.2	38.0	20.3	10.7	
1.70V	341	287	193	150	125	56.2	37.4	20.2	10.6	
1.75V	317	270	186	146	123	55.0	36.7	20.1	10.5	
1.80V	292	252	179	141	120	53.7	36.0	20.0	10.4	

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

End Point										
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h	
1.60V	727	603	392	306	247	145	105	70.3	39.4	
1.65V	701	583	386	302	245	144	103	69.7	39.3	
1.70V	664	557	378	297	243	143	102	69.2	39.2	
1.75V	627	534	368	289	241	143	101	68.7	39.0	
1.80V	590	510	359	281	239	142	100	68.1	38.6	

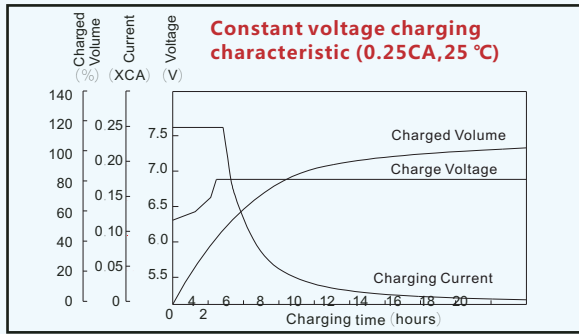
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.



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### CHARGING METHODS: Constant voltage charging at 25°C

Standby use: No charging current limit is required

Charging voltage: 2.20--2.30VPC

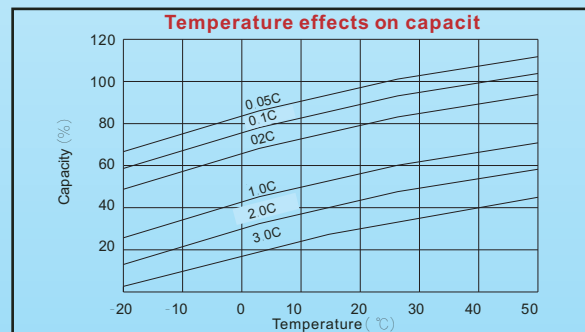
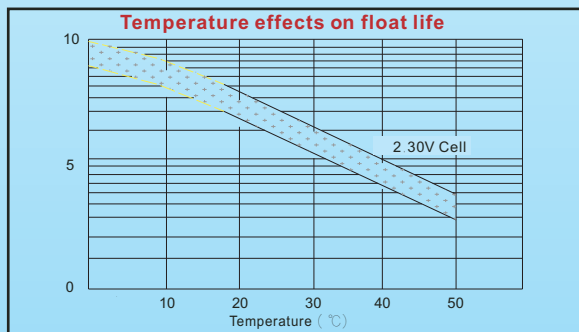
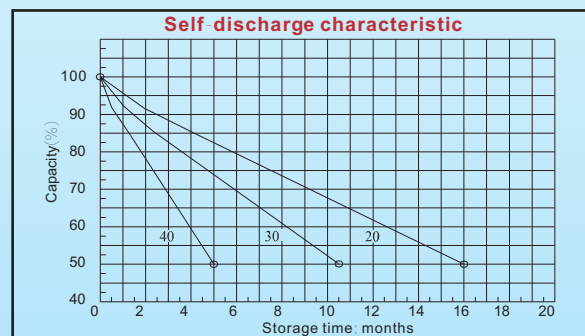
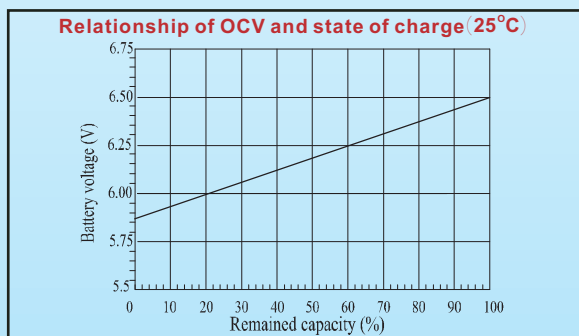
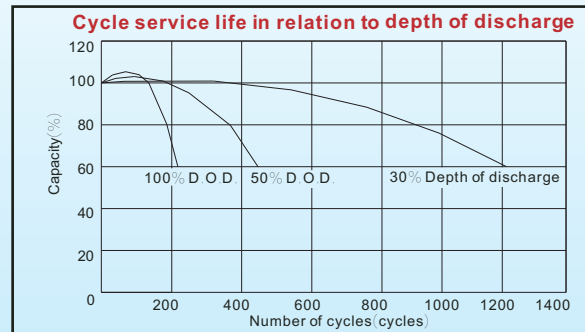
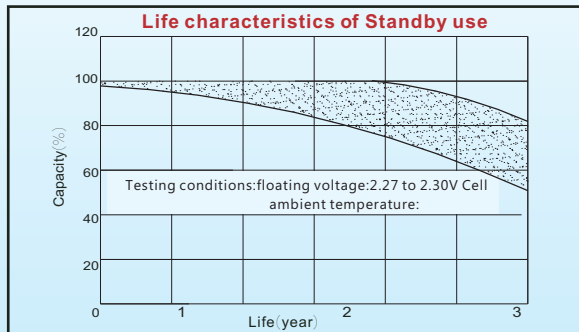
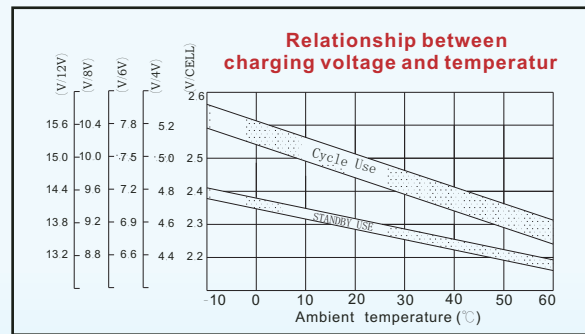
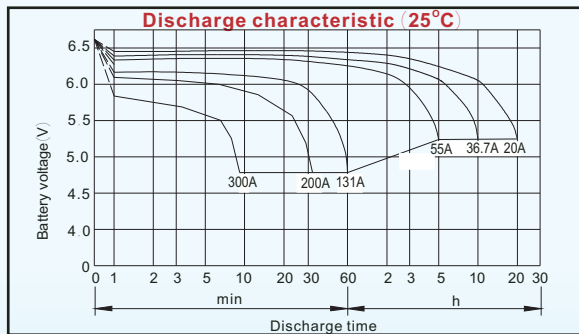
Cyclic use: Maximum charging current: 40% of rated capacity

Charging voltage: 2.40--2.45VPC

Temperature compensation :

stand by - 10mV/°C

cyclic use - 15mV/°C



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