

## 6FM200HX 12V 200Ah(20hr)

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 one-way 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

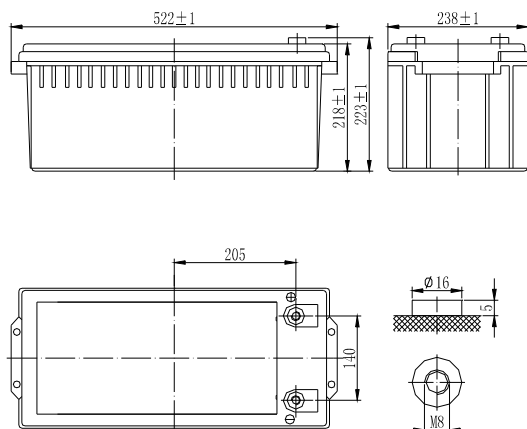
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### 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.

### Dimensions and Weight

Length(mm / inch)	522 / 20.55
Width(mm / inch)	238 / 9.37
Height(mm / inch)	218 / 8.58
Total Height(mm / inch)	223 / 8.78
Approx. Weight(Kg / lbs)	65 / 143.3



### Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
20 hour rate (10A, 10.5V)	200Ah
10 hour rate (19.6A, 10.5V)	196Ah
5 hour rate (36.7A, 10.5V)	183.5Ah
1 hour rate (138A, 9.6V)	138Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	3mOhms
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	3500A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	60A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

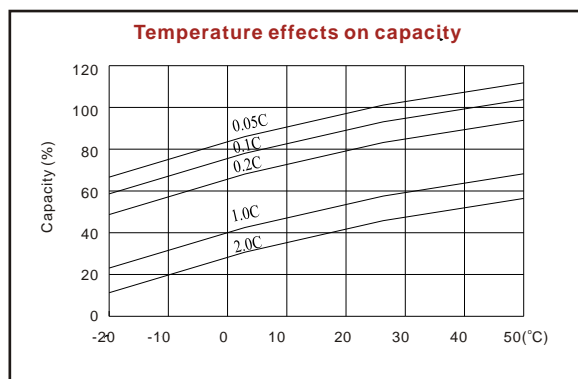
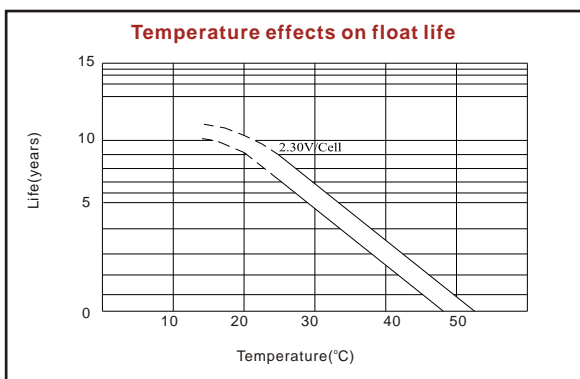
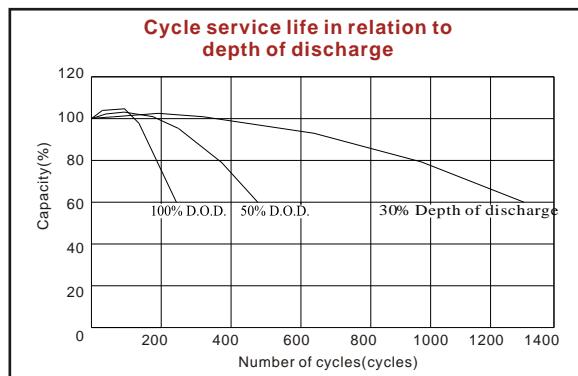
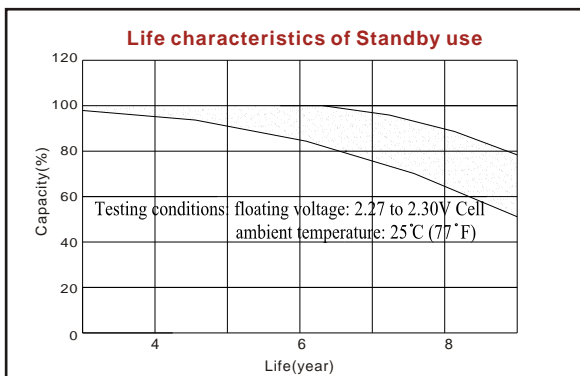
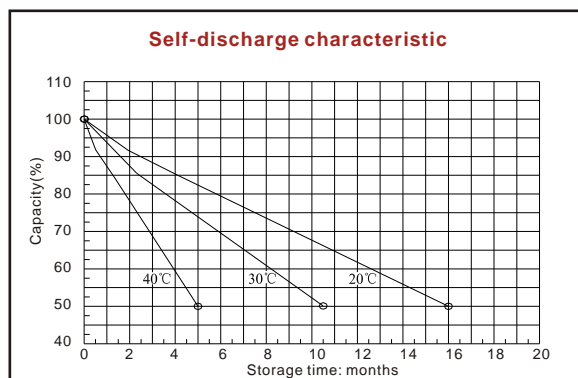
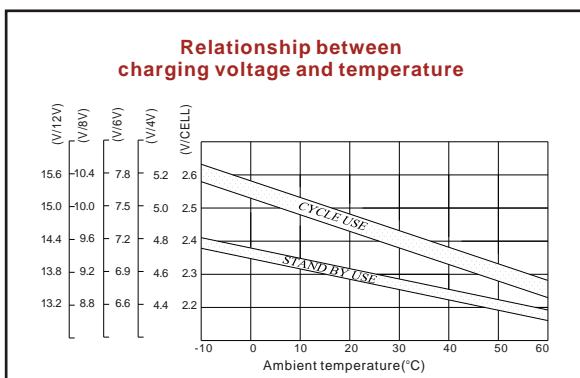
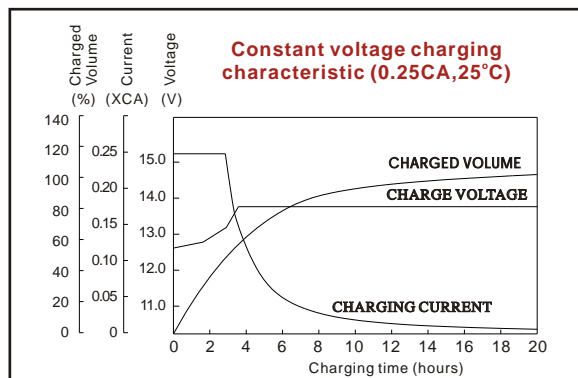
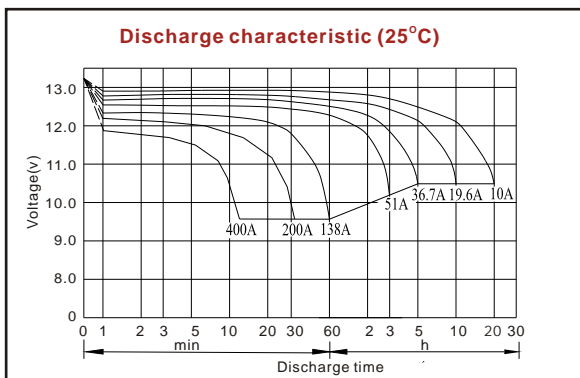
### Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	440	358	210	138	53.1	39.0	20.2	10.40
1.65V	414	337	203	135	52.0	38.2	20.0	10.30
1.70V	390	316	195	132	51.0	37.5	19.8	10.10
1.75V	364	295	188	129	49.8	36.7	19.6	10.00
1.80V	334	274	180	126	48.4	35.9	19.5	9.95

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

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	756	611	402	287	266	145	103	74.3
1.65V	719	591	387	282	261	142	102	73.7
1.70V	681	572	372	276	256	139	100	73.1
1.75V	641	553	357	270	250	136	98.8	72.6
1.80V	609	520	342	265	245	132	97.7	72.0

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



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