6FM200D-X *12V 200Ah(10hr)*

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

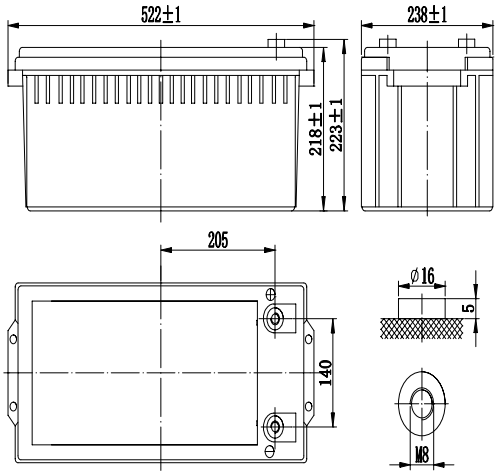
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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 77ºF(25ºC)
10 hour rate (20.0A, 10.8V) 200Ah
5 hour rate (34.9A, 10.5V) 174.5Ah
1 hour rate (130A, 9.6V) 130Ah
Internal Resistance
Fully Charged battery 77ºF(25ºC) 3.5mOhms
Self-Discharge
3% of capacity declined per month at 20ºC(average)
Operating Temperature Range
Discharge ..... -20~60ºC
Charge ..... -10~60ºC
Storage ..... -20~60ºC
Max. Discharge Current 77ºF(25ºC) ..... 1000A(5s)
Short Circuit Current 3300A
Charge Methods: Constant Voltage Charge 77ºF(25ºC)
Cycle use 14.4-14.7V
Maximum charging current 60A
Temperature compensation ..... -30mV/ºC
Standby use 13.6-13.8V
Temperature compensation ..... -20mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

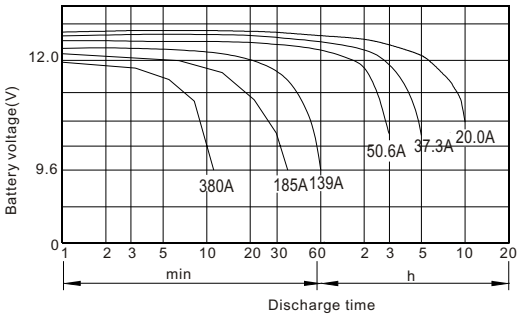
End Point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h	100h
1.60V	554	437	357	212	139	54.1	39.6	21.7	11.1	2.49
1.65V	511	412	336	203	136	52.8	38.9	21.3	11.0	2.46
1.70V	473	388	314	196	133	51.8	38.1	20.9	10.8	2.43
1.75V	443	363	294	189	129	50.6	37.3	20.4	10.7	2.40
1.80V	383	333	273	182	126	49.2	36.5	20.0	10.5	2.36

Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	100h
1.60V	925	765	618	404	290	267	147	105	75.6	4.99
1.65V	876	727	598	389	283	262	144	103	75.0	4.96
1.70V	827	689	579	374	278	258	141	102	74.3	4.92
1.75V	778	648	559	359	272	252	138	100	73.8	4.88
1.80V	726	616	526	344	266	247	134	99.4	73.2	4.84

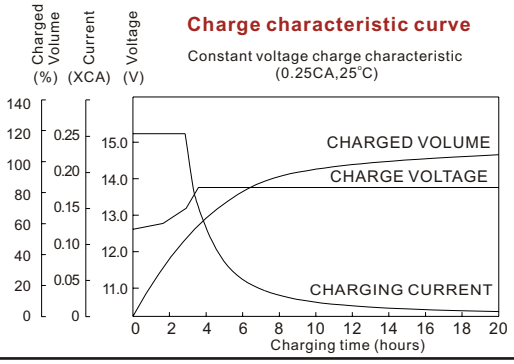
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

Discharge characteristic (25°C)

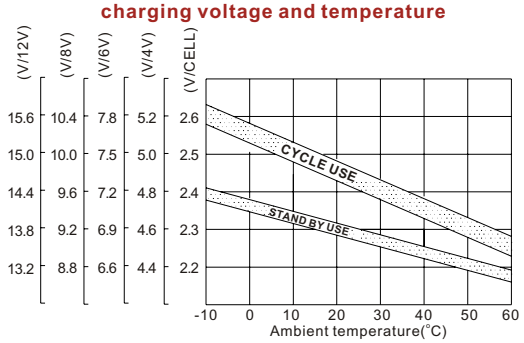


Charge characteristic curve

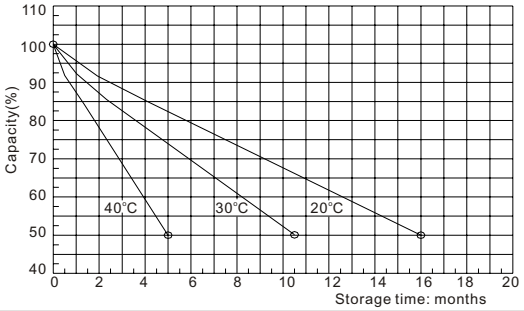
Constant voltage charge characteristic (0.25CA,25°C)



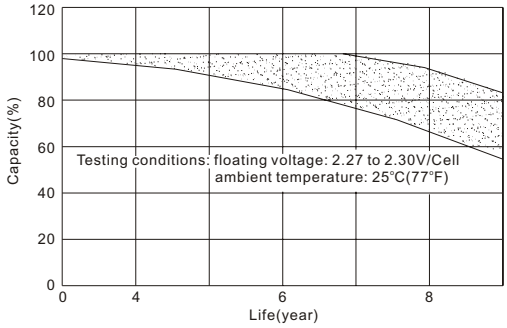
Relationship between charging voltage and temperature



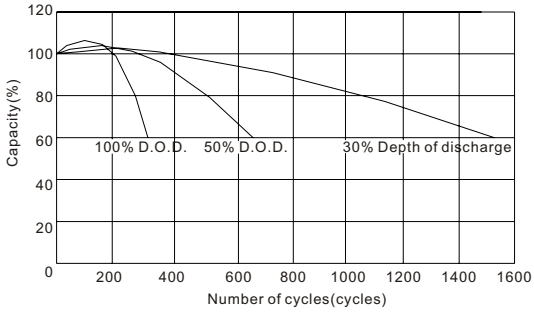
Self-discharge characteristic



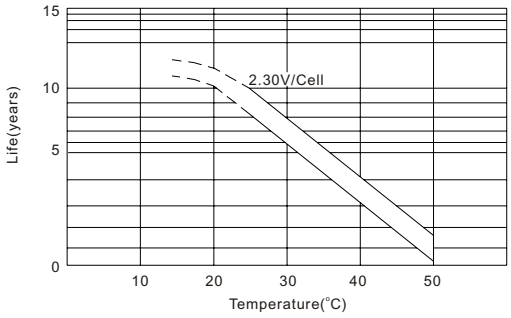
Life characteristics of standby use



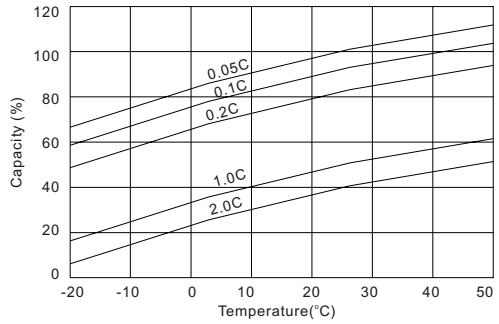
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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Shenzhen Center Power Tech. Co., Ltd.

Center Power Industrial Park, Tongfu Industrial District Dapeng Town, 518120 Shenzhen, China
Tel: (+86-755) 8431 8088 Fax: (+86-755) 8431 8038 E-mail: sales@vision-batt.com

www.vision-batt.com