

# 6FM120D-X 12V 120Ah(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

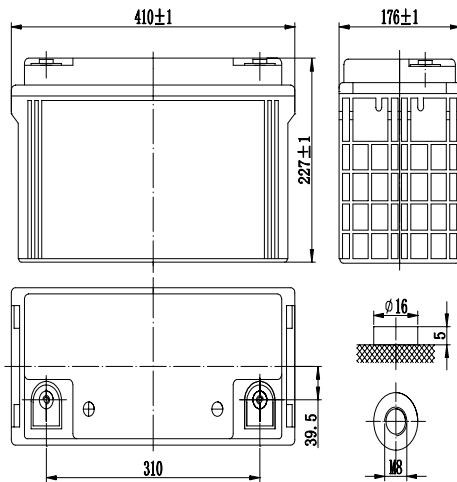
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

## 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)	410 / 16.14
Width(mm / inch)	176 / 6.93
Height(mm / inch)	227 / 8.94
Total Height(mm / inch)	227 / 8.94
Approx. Weight(Kg / lbs)	38 / 83.8



## Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (12.0A, 10.8V)	120Ah
5 hour rate (19.2A, 10.5V)	96Ah
1 hour rate (74.1A, 9.6V)	74.1Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	4.3mOhms
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)	950A(5s)
Short Circuit Current	2250A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	36A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

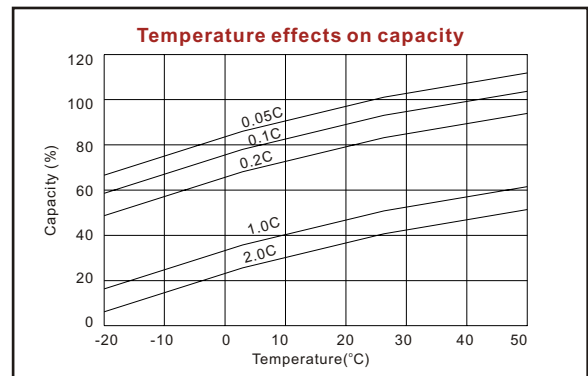
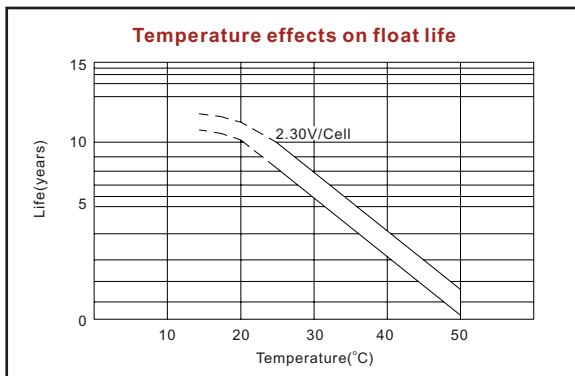
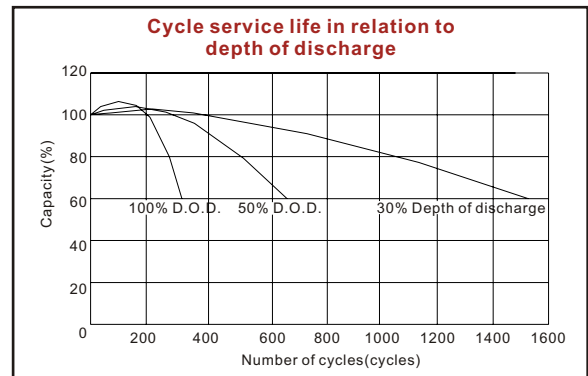
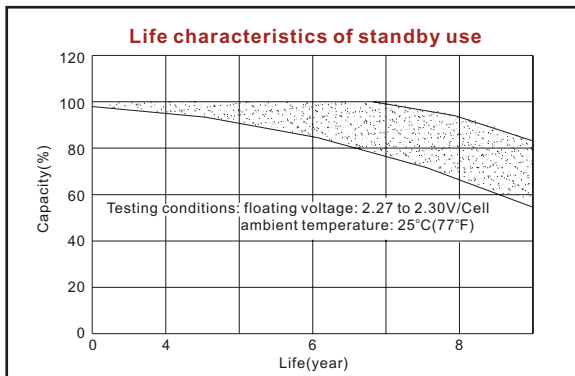
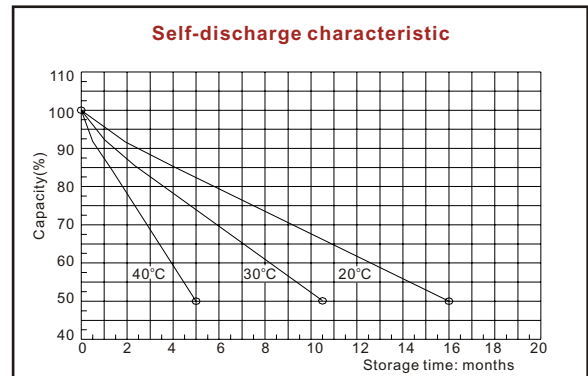
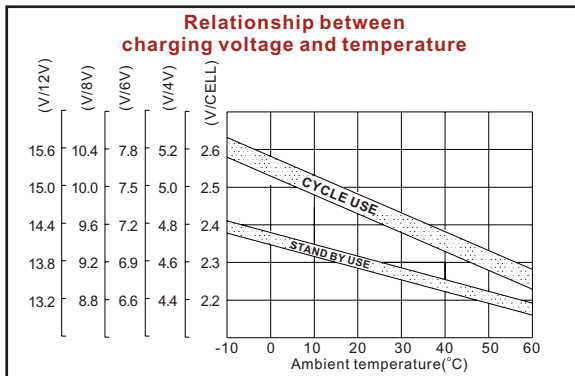
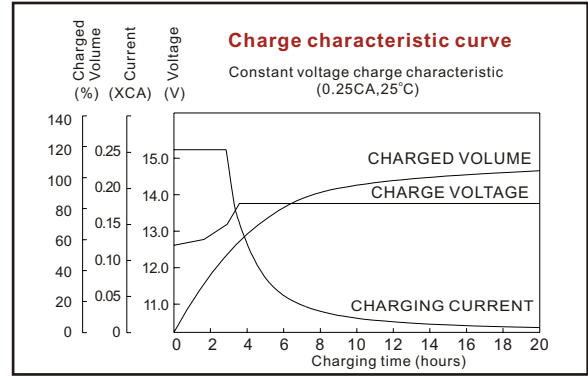
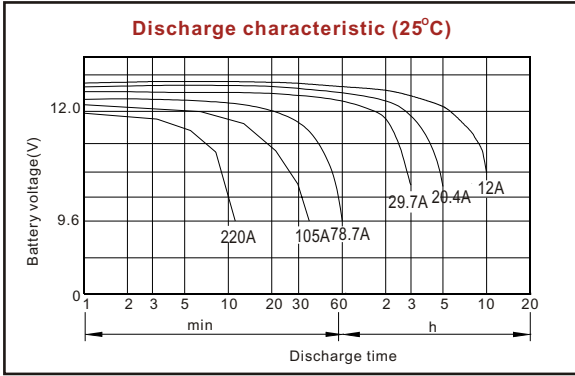
## Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h	100h
1.60V	370	280	226	125	78.7	31.8	21.6	12.4	6.61	1.49
1.65V	346	264	219	122	78.1	31.1	21.3	12.3	6.54	1.47
1.70V	322	251	209	119	76.6	30.5	20.9	12.2	6.46	1.44
1.75V	297	235	200	114	74.1	29.7	20.4	12.1	6.37	1.42
1.80V	274	221	191	112	71.9	28.9	20.1	12.0	6.27	1.40

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

End Point Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	100h
1.60V	627	498	397	241	171	157	87.3	61.9	43.4	3.02
1.65V	595	474	384	234	168	155	85.7	61.2	43.2	2.98
1.70V	564	449	372	226	164	154	84.2	60.4	42.9	2.95
1.75V	532	426	359	220	159	150	82.6	59.8	42.7	2.92
1.80V	498	397	346	212	156	144	81.8	58.7	42.3	2.89

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



ISO9001:2000

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