

6FM120HX 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

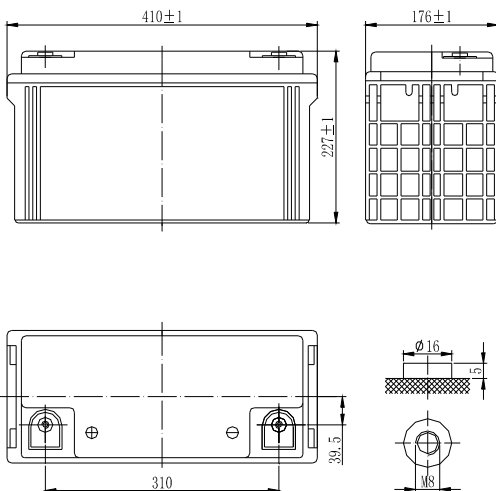
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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 (20.7A, 10.5V)	103.5Ah
1 hour rate (79.6A, 9.6V)	79.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	4mOhms
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	2400A
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

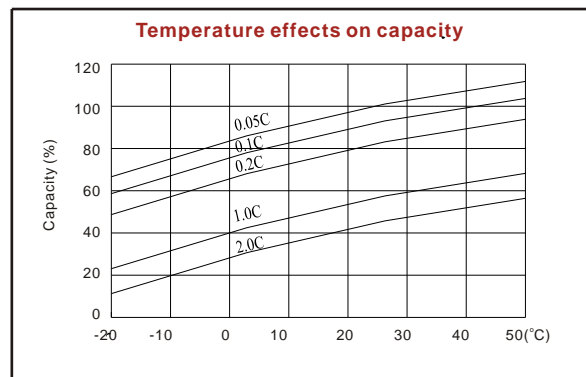
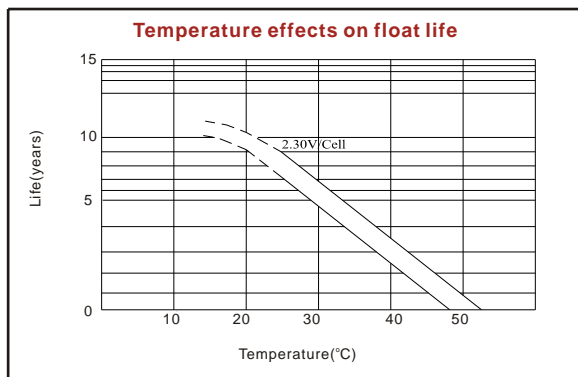
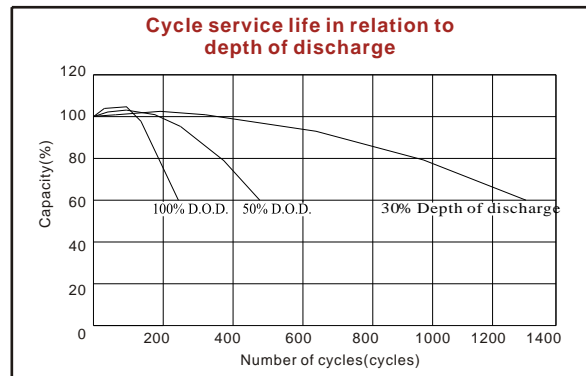
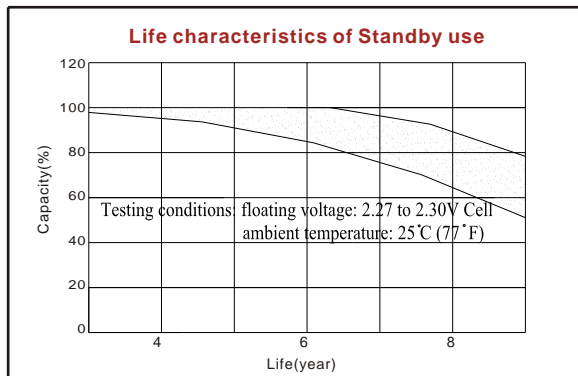
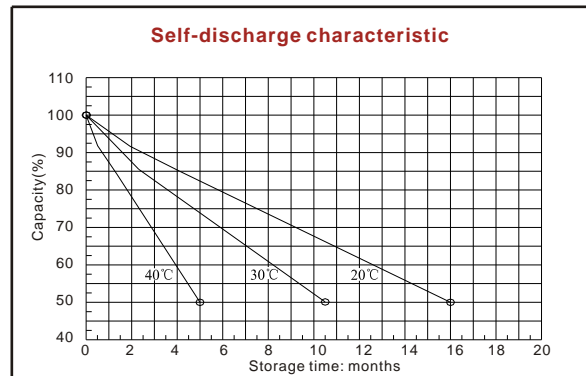
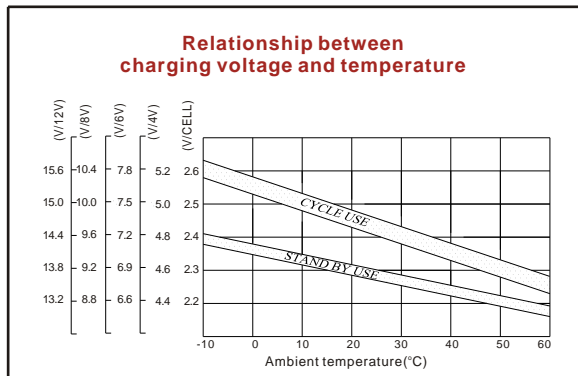
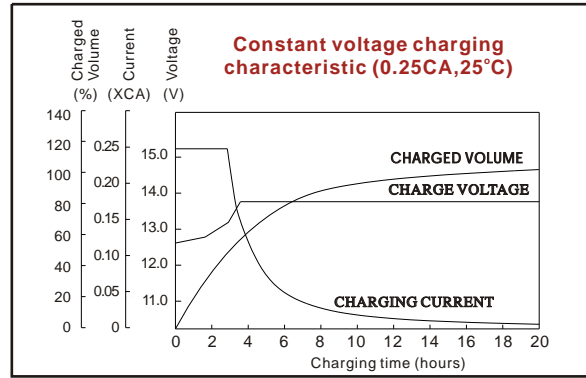
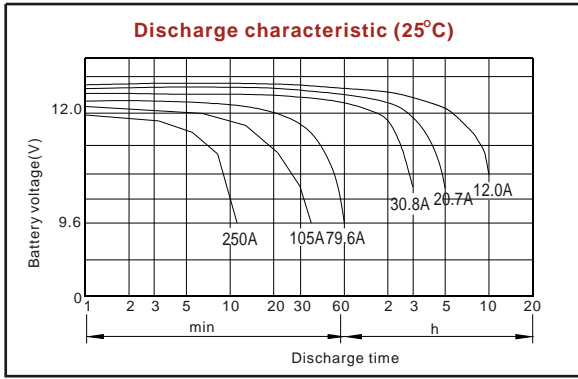
Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	371	281	228	129	79.6	32.1	21.8	12.6	6.58
1.65V	347	266	219	125	79.0	31.4	21.5	12.5	6.54
1.70V	323	251	210	121	77.4	30.8	21.1	12.4	6.50
1.75V	299	236	201	116	75.1	30.1	20.7	12.2	6.44
1.80V	275	221	192	114	72.7	29.3	20.3	12.0	6.36

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	633	504	402	244	172	159	87.4	61.6	42.8
1.65V	601	479	389	236	168	156	85.8	60.9	42.6
1.70V	570	454	376	230	165	154	84.2	60.2	42.2
1.75V	539	430	363	222	161	150	82.7	59.5	42.0
1.80V	504	402	350	215	158	145	81.9	58.5	41.6

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



ISO9001:2000

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