

6FM100F-X 12V 100Ah(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

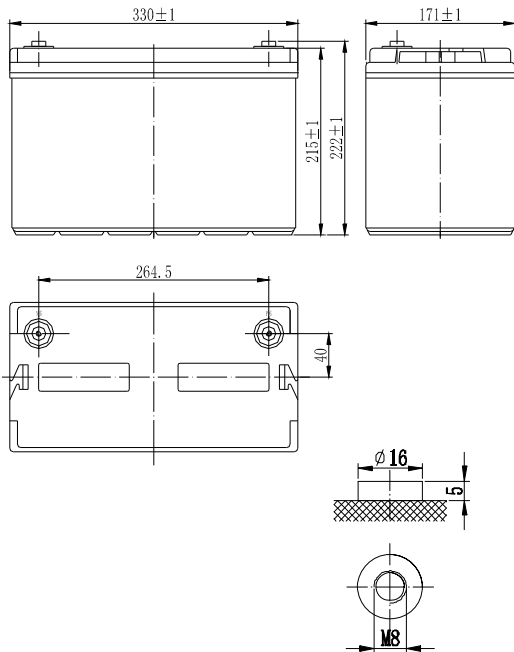
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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).....330 / 12.99
 Width(mm / inch).....171 / 6.73
 Height(mm / inch).....215 / 8.46
 Total Height(mm / inch).....222 / 8.74
 Approx. Weight(Kg / lbs).....30 / 66.2



Performance Characteristics

Nominal Voltage	.....12V
Number of cell	.....6
Design Life	.....10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (10.0A, 10.8V)	.....100Ah
5 hour rate (16.6A, 10.5V)	.....83Ah
1 hour rate (60.9A, 9.6V)	.....60.9Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	.....4.5mOhms
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)	.....900A(5s)
Short Circuit Current	.....2200A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	.....14.4-14.7V
Maximum charging current	.....30A
Temperature compensation	.....-30mV/°C
Standby use	.....13.6-13.8V
Temperature compensation	.....-20mV/°C

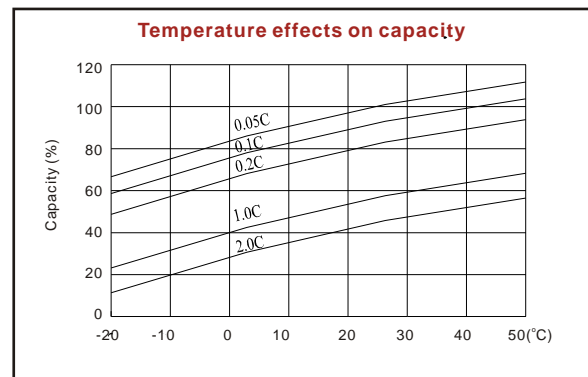
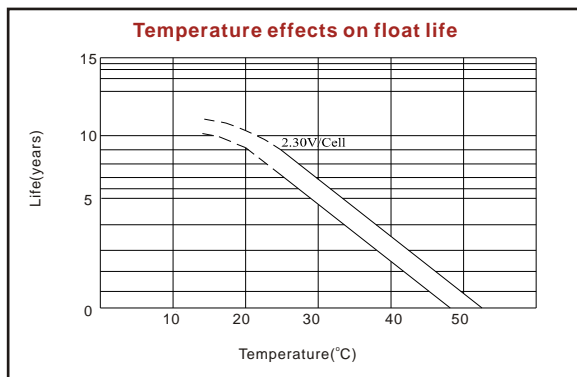
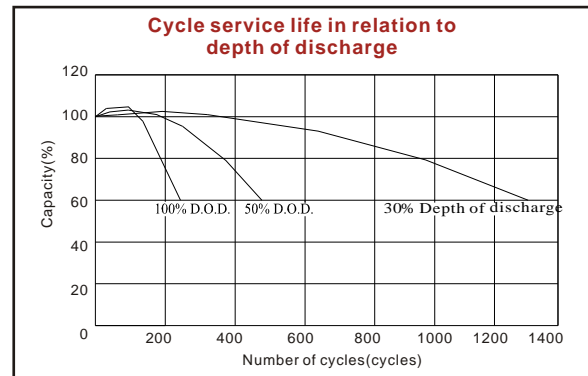
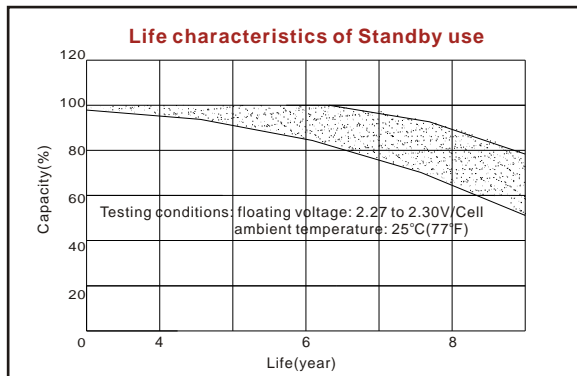
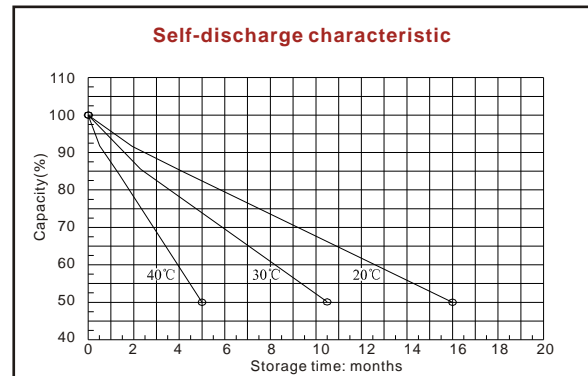
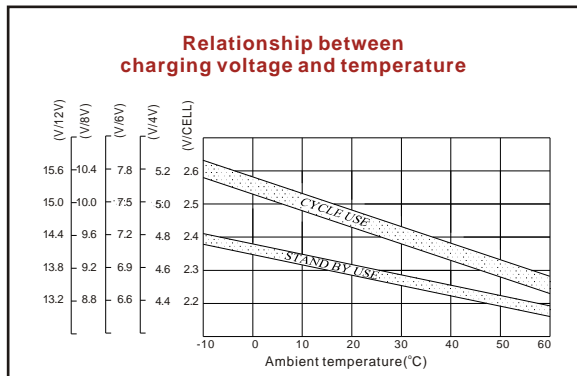
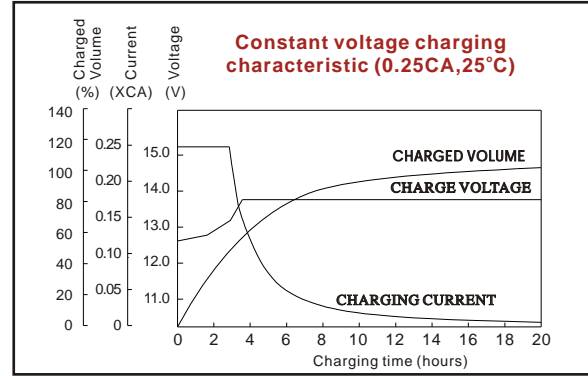
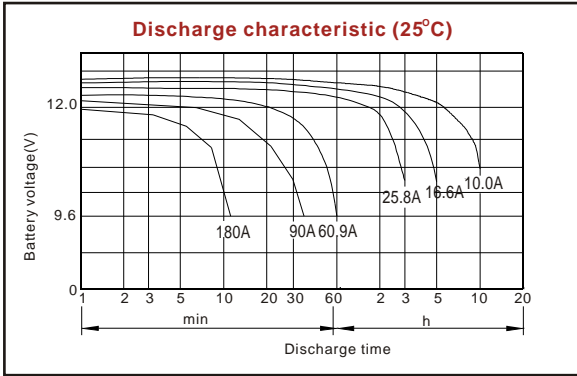
Discharge Constant Current (Amperes at 77°F25°C)

End Voltage Per Cell/V	5min	10min	15min	30min	1h	3h	5h	10h
1.60	289	211	170	99.4	60.9	26.5	18.1	10.6
1.65	272	203	164	95.7	57.5	26.3	17.4	10.5
1.70	248	184	151	88.3	56.6	25.8	17.1	10.4
1.75	223	172	141	85.6	55.7	25.6	16.6	10.2
1.80	203	161	132	83.7	52.8	24.0	16.3	10.0

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

End Voltage Per Cell/V	5min	10min	15min	30min	1h	2h	3h	5h
1.60	503	361	295	183	114	67.1	50.2	34
1.65	476	349	290	173	109	64.4	48.6	33.6
1.70	440	331	275	168	105	63.5	48.4	33.3
1.75	406	325	270	163	102	61.3	46.6	32.7
1.80	382	303	257	157	95.7	59.4	46.1	32.3

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



ISO9001:2000

MH25860

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