

# 6FM100E-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

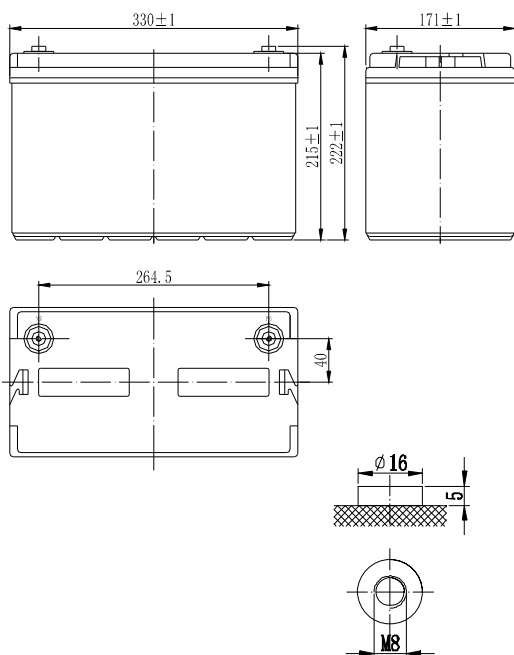
## General Features

- 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)	29 / 63.9

\* Weight deviation: ± 3%



## 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 (61A, 9.6V)	61Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤ 5.7mOhms
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	2100A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30A
Temperature compensation	-30mV/°C
Standby use	2.20-2.28VPC
Temperature compensation	-20mV/°C

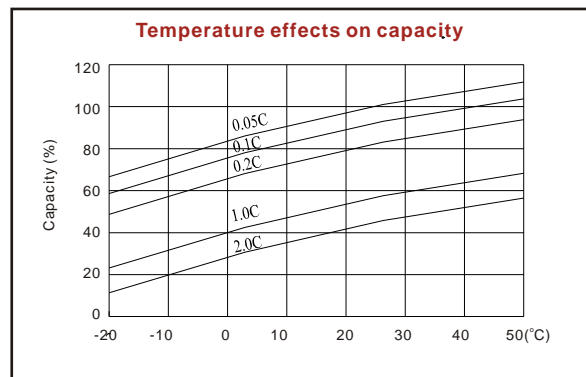
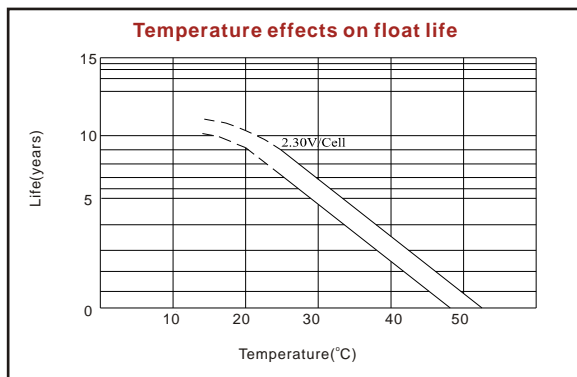
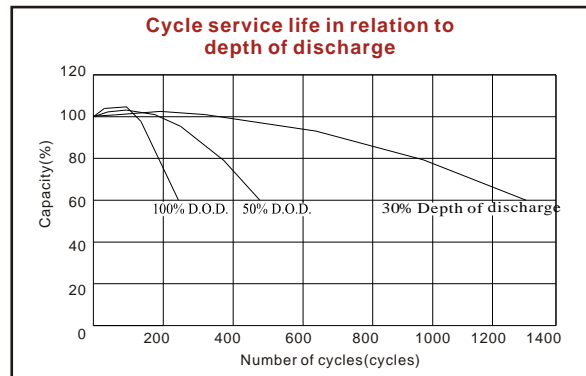
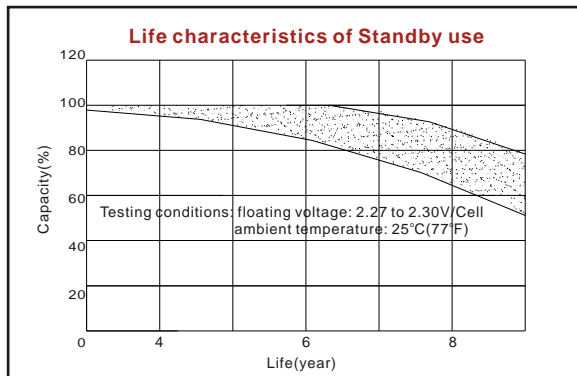
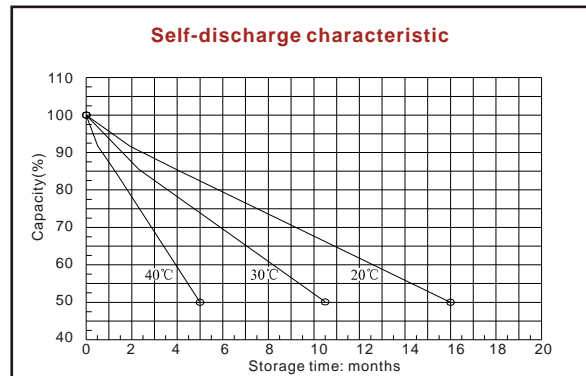
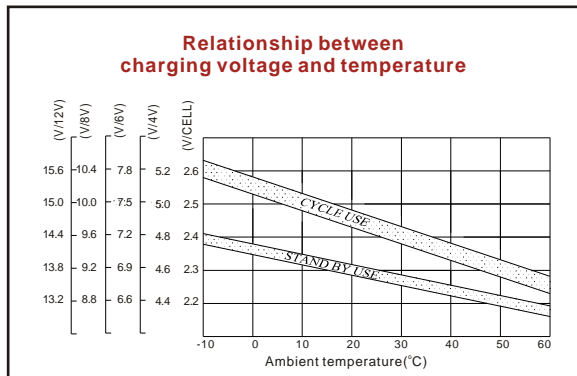
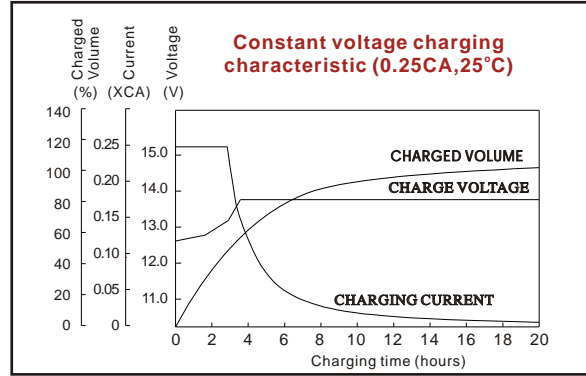
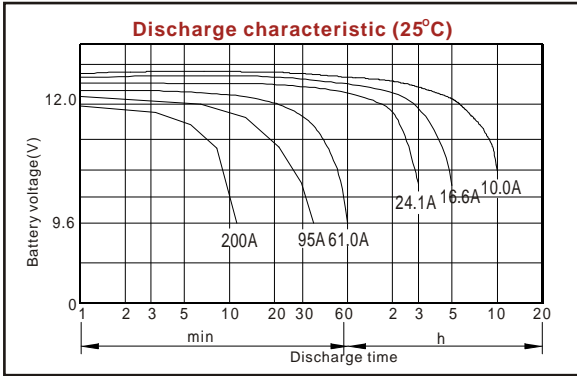
## Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	210	173	98.9	61.0	25.1	17.6	10.8	5.50
1.65V	197	164	95.0	60.6	24.6	17.3	10.6	5.45
1.70V	182	156	92.2	59.7	24.1	17.0	10.4	5.40
1.75V	170	145	89.3	58.9	23.5	16.6	10.2	5.35
1.80V	156	136	87.4	57.1	22.8	16.3	10.0	5.30

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

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	372	304	186	138	119	68.2	48.4	33.8
1.65V	353	299	180	134	117	67.0	47.8	33.6
1.70V	335	290	176	132	116	65.8	47.3	33.3
1.75V	317	279	170	129	112	64.6	46.7	33.2
1.80V	296	270	164	126	109	63.9	45.9	32.9

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.



ISO9001:2008

MH25860

G4M19906-9202-E-16

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