

6FM90T 12V 90Ah(20hr)



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

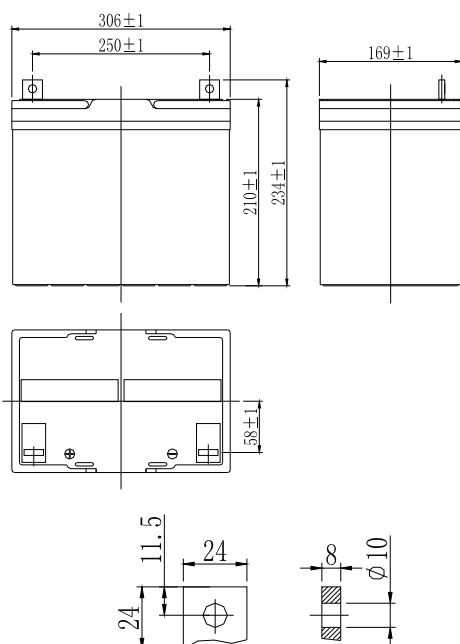
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Pb	Fiberglass	Sulfuric acid

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).....306 / 12.05
 Width(mm / inch).....169 / 6.65
 Height(mm / inch).....210 / 8.26
 Total Height(mm / inch).....234 / 9.21
 Approx. Weight(Kg / lbs).....30 / 66.1



Performance Characteristics

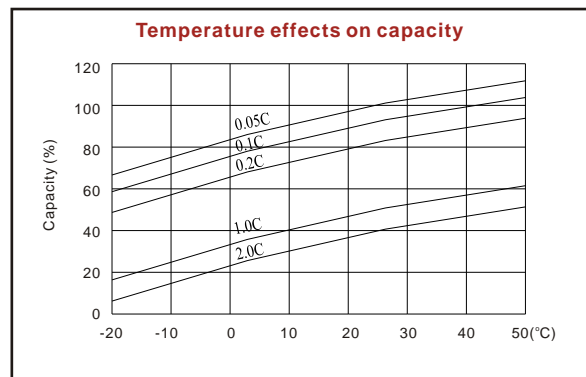
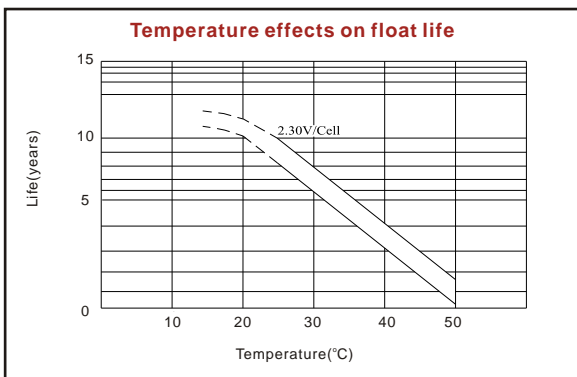
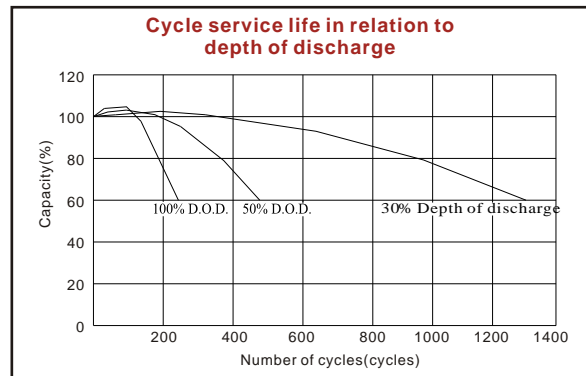
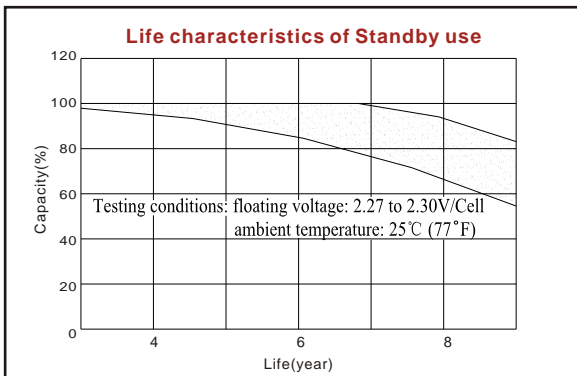
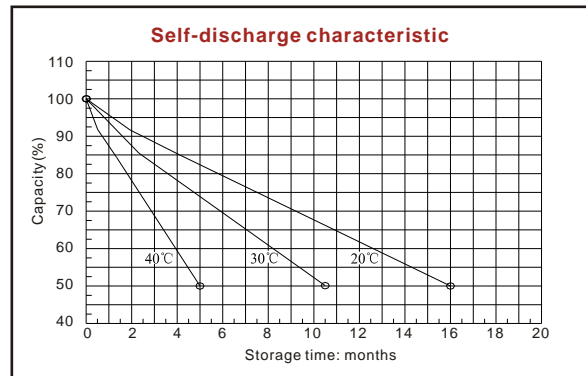
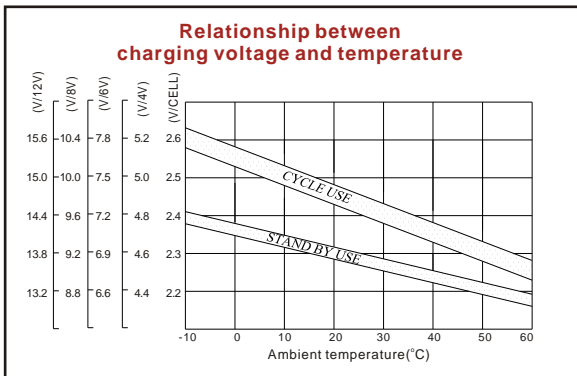
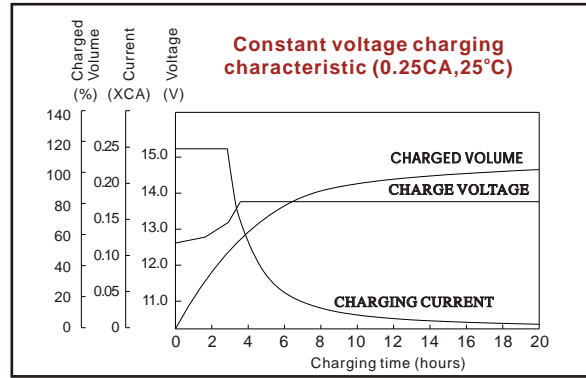
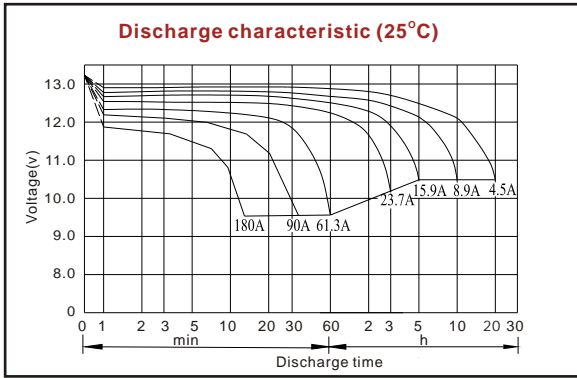
Nominal Voltage12V
 Number of cell6
 Design Life10 years
 Nominal Capacity 77°F(25°C)
 20 hour rate (4.5A, 10.5V)..... 90Ah
 10 hour rate (8.9A, 10.5V)..... 89Ah
 5 hour rate (15.9A, 10.5V)..... 79.5Ah
 1 hour rate (61.3A, 9.6V) 61.3Ah
 Internal Resistance
 Fully Charged battery 77°F(25°C) 5.2mOhms
 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)800A(5s)
 Short Circuit Current2000A
 Charge Methods: Constant Voltage Charge 77°F(25°C)
 Cycle use 14.4-14.7V
 Maximum charging current 27A
 Temperature compensation-30mV/°C
 Standby use13.6-13.8V
 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	297	204	169	97.9	61.3	24.7	16.8	8.96	4.66
1.65V	273	191	161	95.0	60.3	24.1	16.6	8.94	4.62
1.70V	248	177	162	92.0	59.4	23.7	16.3	8.92	4.56
1.75V	223	164	142	88.4	58.4	23.1	15.9	8.90	4.50
1.80V	197	151	133	86.7	57.4	22.5	15.6	8.85	4.43

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	512	360	309	186	139	121	67.2	48.4	33.8
1.65V	476	342	307	181	136	119	66.0	47.8	33.6
1.70V	440	324	294	176	133	118	64.8	47.3	33.4
1.75V	405	307	284	170	130	115	63.6	46.7	33.2
1.80V	369	287	274	164	127	111	63.0	45.9	32.9



ISO9001:2000

MH25860

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