6FM150HX *12V 150Ah(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

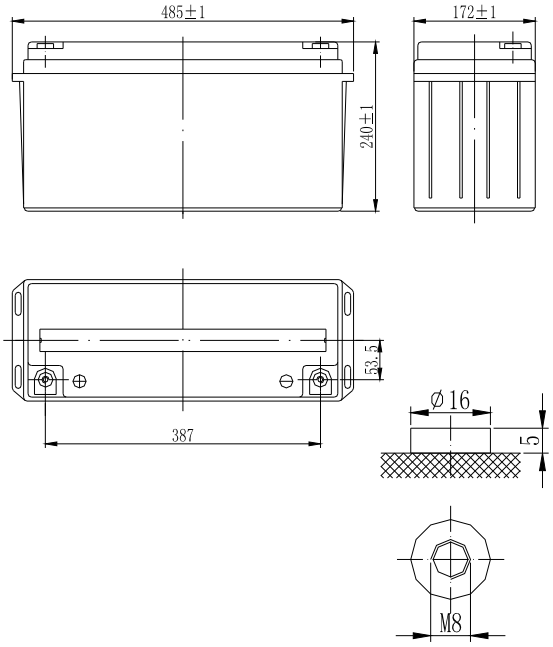
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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) ..... 485 / 19.09
Width(mm / inch) ..... 172 / 6.77
Height(mm / inch) ..... 240 / 9.45
Total Height(mm / inch) ..... 240 / 9.45
Approx. Weight(Kg / lbs) ..... 47 / 103.6



Performance Characteristics

Nominal Voltage 12V
Number of cell 6
Design Life ..... 10 years
Nominal Capacity 77ºF(25ºC)
- 20 hour rate (7.5A, 10.5V) 150Ah
- 10 hour rate (14.7A, 10.5V) 147Ah
- 5 hour rate (26.5A, 10.5V) 132.5Ah
- 1 hour rate (102A, 9.6V) 102Ah

Internal Resistance
- Fully Charged battery 77ºF(25ºC) 3.5mOhms

Self-Discharge
- 3% of capacity declined per month at 20ºC(average)

Operating Temperature Range
- Discharge ..... -20~60ºC
- Charge ..... -10~60ºC
- Storage ..... -20~60ºC

Max. Discharge Current 77ºF(25ºC) ..... 1000A(5s)
Short Circuit Current 2800A
Charge Methods: Constant Voltage Charge 77ºF(25ºC)
- Cycle use 14.4-14.7V
  - Maximum charging current 45A
  - Temperature compensation ..... -30mV/ºC
- Standby use 13.6-13.8V
  - Temperature compensation ..... -20mV/ºC

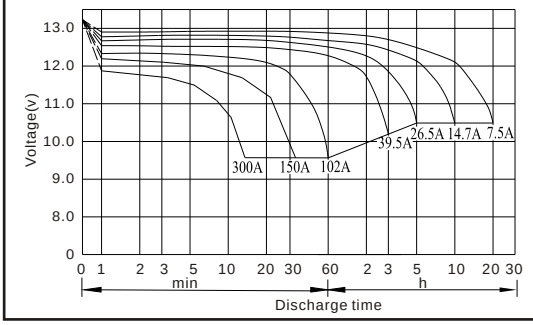
Discharge Constant Current (Amperes at 77ºF25ºC)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	450	351	285	165	102	41.2	28.0	15.2	7.77
1.65V	419	330	270	160	100	40.3	27.6	15.1	7.70
1.70V	388	309	256	155	98	39.5	27.1	14.9	7.61
1.75V	356	289	242	149	95	38.6	26.5	14.7	7.50
1.80V	320	266	228	146	92	37.5	26.0	14.4	7.38

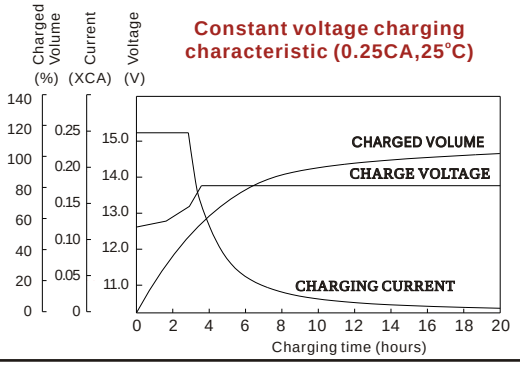
Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	765	609	501	325	221	201	112	78.0	53.5
1.65V	734	579	483	315	216	198	110	77.1	53.2
1.70V	686	548	465	306	211	195	108	76.2	52.8
1.75V	638	519	446	296	206	190	106	75.3	52.5
1.80V	591	487	425	286	202	184	105	74.0	52.0

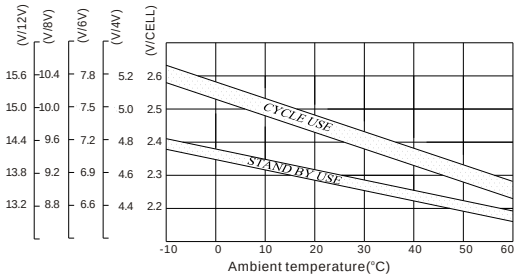
Discharge characteristic (25°C)



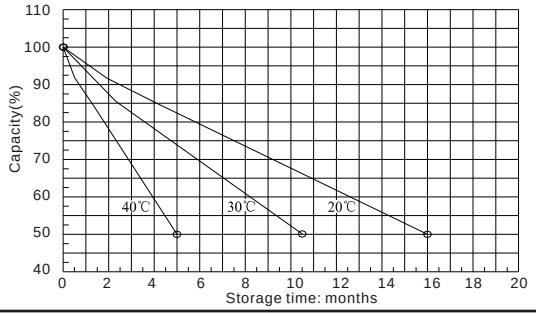
Constant voltage charging characteristic (0.25CA,25°C)



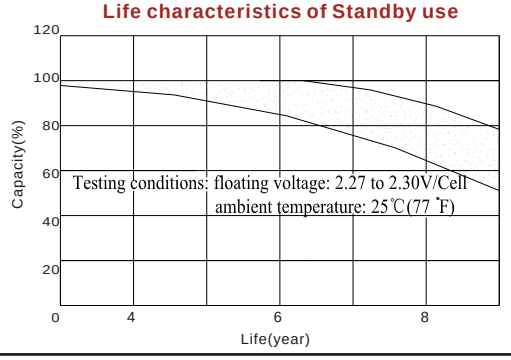
Relationship between charging voltage and temperature



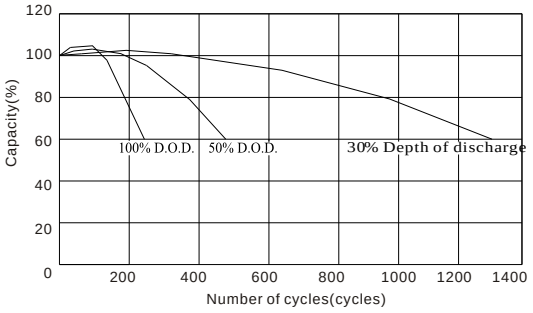
Self-discharge characteristic



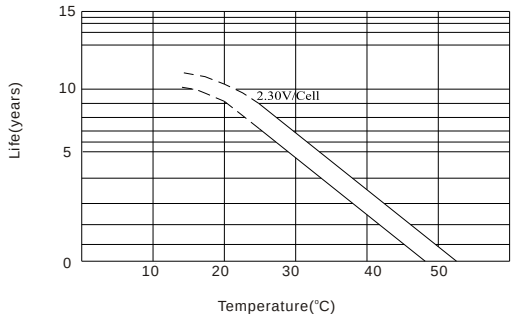
Life characteristics of Standby use



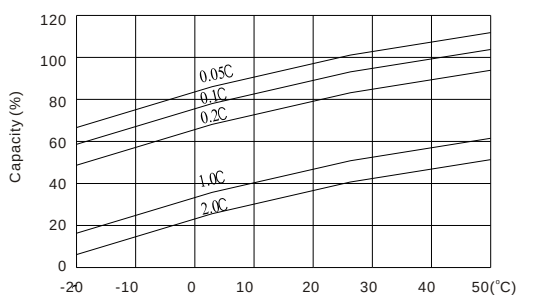
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



ISO9001:2000
MH25860
G4M19906-9202-E-16

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