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## **BATTERY LIFE CERTIFICATE**

PRODUCT LFP12150FTHT 12V150AH VRLA BATTERIES WITH DESIGNED FLOATING APPLICATION OF 14 YEARS

## AT 25 CENTIGRADE DEGRAEES

Note :

1. The positive plates dimensions are 249\*158\*3.0mm

The negative plates dimensions are 249\*158\*2.0mm

The material of positive plate are PbO<sub>2</sub>.

The material of negative plates is Pb.

The grid of positive plate is Pb-Ca(0.08%) -Sn(0.9%)-Al(0.025%)alloy grids.

The grid of negative plate is Pb-Ca(0.1%)-Sn(0.25%)-Al(0.025%) alloy grids.

2. This battery is with dimensions of 510\*110\*287mm at present .

## Floating life at temperature (60℃)

Battery model : LFP12150FTHT (Gel, 12V150AH)

Method: The battery will be subject to charge at constant voltage (2.3V/cell)

under the ambient temperature at  $140^\circ F(60^\circ {\rm C})$  .Then check the capacity

every 3 weeks (3h current discharge up to 1.70V/cell at  $77^{\circ}F$ ,25 $^{\circ}C$ ) 3 weeks are equivalent to one cycle .

Standard: The floating life will be ended if the residual capacity less than 80% of the nominal capacity(C3).

Note : One cycle is equivalent to One year float life at  $25^{\circ}$ C.

Test results:

Cycle	LFP12150FT HT (12V150AH)
	Discharge time
Initial	3h32min
1	3h34min
2	3h36min
3	3h33min
4	3h30min
5	3h27min
6	3h22min
7	3h17min
8	3h11min
9	3h04min
10	2h58min
11	2h53min
12	2h47min
13	2h42min
14	2h32min
15	
Results	14 cycles

Conclusion :

LFP12150FTHT battery can operate at high temperatures(  $140^{\circ}F(60^{\circ}C)$ 

for floating charge over 14cycles, it is equal to battery floating life is 14 years at  $25^{\circ}$  (equal to 7 years at  $35^{\circ}$ )



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