

Relibatt 12V100Ah RE12-100BL Heating Time Testing Report

I、 Testing Goal

Verify the heating function and heating time of the protection board

II、 Testing Model

RE12-100BL (6FM70 Housing)

III、 Testing Machine

Low Temperature Test Chamber,LiFePO4 Battery Charger

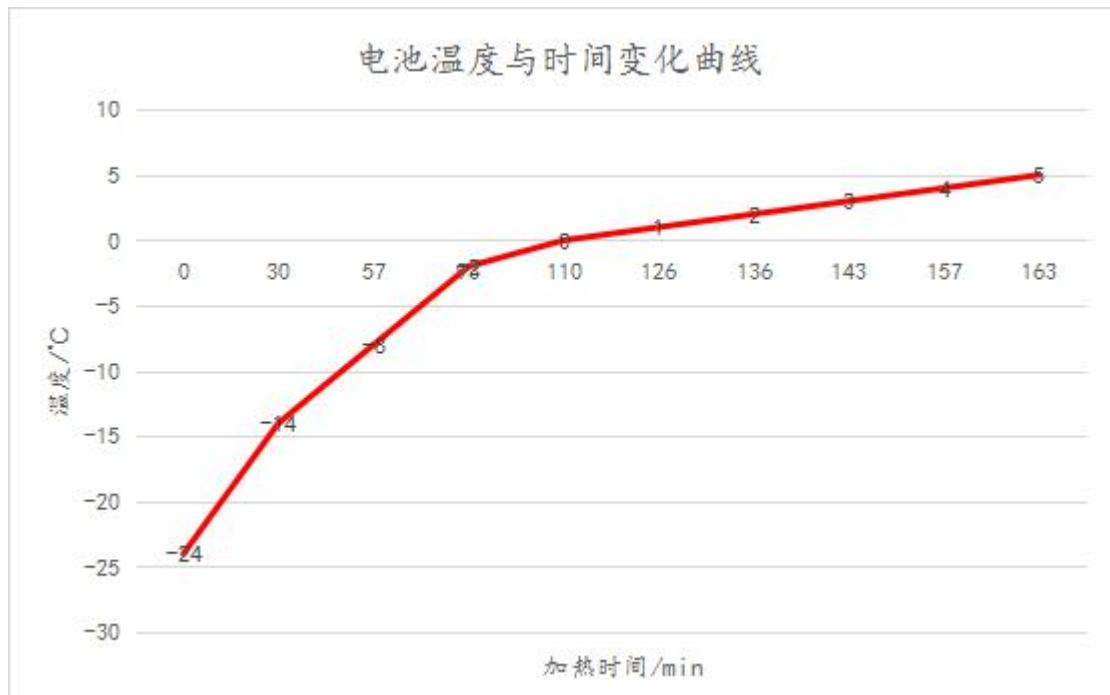
IV、 Testing Process

- 1.Put the battery in the low temperature test chamber,connect the battery with the battery charger.
- 2.Set the temperature at -20°C ,leave the battery for 24hours.
- 3.Set the charging voltage at 14.6V,charging current 8A
- 4.Keep observing the battery staus and record the data.

V、Testing Data

1. Here is the the battery temperatre rise data:

Number	China Time	Battery Temperature	Charging Voltage	Charging Current
1	08:17	-23°C	14.6 V	4.11 A
2	08:47	-14°C	14.6 V	4.11 A
3	09:14	-8°C	14.6 V	4.11 A
4	09:50	-2°C	14.6 V	4.11 A
5	10:07	0°C	14.6 V	4.11 A
6	10:23	1°C	14.6 V	4.11 A
7	10:33	2°C	14.6 V	4.11 A
8	10:50	3°C	14.6 V	4.11 A
9	10:54	4°C	14.6 V	4.11 A
10	11:00	5°C	13.84 V	8.0 A



After nearly 163 minutes of heating, the battery temperature rise from -23°C to 5°C.

VI、 Testing Report

Summary :

1.The heating function and heating time meet the design requirements. In some cases, the heating time will be different from the theoretical value, which is directly related to the position of the temperature pole, the heating current of the charger, and the external environment;

2.The heating pad current is about 4A.

3.The charger setting parameter is 14.6V 8A, and the charging mode is CC-CV mode.

In the heating mode, the current will maintain 4A charging (to supply power to the heating pad); when the temperature is heated to above 5 ° C, the charger will automatically jump to 8A charging (the charging protection is released).

VII、Some Pictures

