

## Key Description

1. Short press "enter key " to turn on.
2. Long press "enter key " to shut down.
3. Press the "set key" to enter the setting state, then press the "select key" to select different functions, and then press the "enter key" to enter the corresponding function.
4. Enter the resistance calibration/voltage calibration state. At this time, the test line should clamp the calibration resistance or voltage, press the "set key" to select the gear to be calibrated, and then press "+" and "-" to adjust the displayed value to be equal to the calibration resistance or voltage , Press the "select key" to select "ok" or "Cancel", and finally press the "enter key " to decide whether to save or cancel.



As can be seen from the table below, the larger the battery capacity, the smaller the internal resistance. It is generally believed that if the internal resistance of the

battery is greater than 1.25 times of the factory standard, it indicates that the battery has been severely aged and needs to be replaced in time.

| Reference Table For Battery Internal Resistance Measurement |          |         |            |
|---|----------|---------|------------|
| Serial number   | Capacity | Voltage | Resistance |
| 1   | 0.8Ah    | 12V     | 120mΩ      |
| 2   | 1.3Ah    | 12V     | 102mΩ      |
| 3   | 2.2Ah    | 12V     | 63.7mΩ     |
| 4   | 3.3Ah    | 12V     | 55.7mΩ     |
| 5   | 4.0Ah    | 12V     | 46.9mΩ     |
| 6   | 5Ah      | 12V     | 37.4mΩ     |
| 7   | 6Ah      | 12V     | 30.2mΩ     |
| 8   | 7Ah      | 12V     | 23mΩ       |
| 9   | 8Ah      | 12V     | 20mΩ       |
| 10  | 9Ah      | 12V     | 19mΩ       |
| 11  | 10Ah     | 12V     | 18.7mΩ     |
| 12  | 12Ah     | 12V     | 14.9mΩ     |
| 13  | 14Ah     | 12V     | 13.6mΩ     |
| 14  | 15Ah     | 12V     | 13mΩ       |
| 15  | 17Ah     | 12V     | 12.1mΩ     |
| 16  | 18Ah     | 12V     | 11.4mΩ     |
| 17  | 20Ah     | 12V     | 10.6mΩ     |
| 18  | 24Ah     | 12V     | 9.8mΩ      |
| 19  | 25Ah     | 12V     | 9.5mΩ      |
| 20  | 26Ah     | 12V     | 9.2mΩ      |
| 21  | 28Ah     | 12V     | 8.9mΩ      |
| 22  | 31Ah     | 12V     | 8.6mΩ      |
| 23  | 33Ah     | 12V     | 8.4mΩ      |
| 24  | 38Ah     | 12V     | 8.2mΩ      |
| 25  | 40Ah     | 12V     | 7.9mΩ      |
| 26  | 60Ah     | 12V     | 6.5mΩ      |
| 27  | 65Ah     | 12V     | 5.8mΩ      |
| 28  | 75Ah     | 12V     | 5.5mΩ      |
| 29  | 80Ah     | 12V     | 5.3mΩ      |
| 30  | 85Ah     | 12V     | 5mΩ        |
| 31  | 100Ah    | 12V     | 4.5mΩ      |
| 32  | 120Ah    | 12V     | 4.3mΩ      |
| 33  | 150Ah    | 12V     | 4mΩ        |
| 34  | 200Ah    | 12V     | 3mΩ        |
| 35  | 230Ah    | 12V     | 2mΩ        |
| 36  | 250Ah    | 12V     | 1mΩ        |
| 37  | 1.3Ah    | 6V      | 55mΩ       |
| 38  | 2.8Ah    | 6V      | 40mΩ       |
| 39  | 3.2Ah    | 6V      | 28.5mΩ     |
| 40  | 4Ah      | 6V      | 24mΩ       |
| 41  | 5Ah      | 6V      | 18.3mΩ     |
| 42  | 7Ah      | 6V      | 14mΩ       |
| 43  | 10Ah     | 6V      | 12mΩ       |
| 44  | 110Ah    | 6V      | 4.3mΩ      |
| 45  | 200Ah    | 6V      | 1.7mΩ      |
| 46  | 100Ah    | 2V      | 1mΩ        |
| 47  | 150Ah    | 2V      | 0.83mΩ     |
| 48  | 170Ah    | 2V      | 0.76mΩ     |
| 49  | 200Ah    | 2V      | 0.7mΩ      |
| 50  | 250Ah    | 2V      | 0.68mΩ     |
| 51  | 300Ah    | 2V      | 0.65mΩ     |
| 52  | 350Ah    | 2V      | 0.6mΩ      |
| 53  | 400Ah    | 2V      | 0.5mΩ      |
| 54  | 420Ah    | 2V      | 0.48mΩ     |
| 55  | 450Ah    | 2V      | 0.45mΩ     |
| 56  | 462Ah    | 2V      | 0.43mΩ     |
| 57  | 500Ah    | 2V      | 0.4mΩ      |
| 58  | 600Ah    | 2V      | 0.32mΩ     |
| 59  | 800Ah    | 2V      | 0.24mΩ     |
| 60  | 1000Ah   | 2V      | 0.2mΩ      |
| 61  | 1500Ah   | 2V      | 0.16mΩ     |
| 62  | 2000Ah   | 2V      | 0.12mΩ     |
| 63  | 3000Ah   | 2V      | 0.11mΩ     |