

## ER18505M

### Activate the depassivation method and voltage detection before installation

1. Detection conditions: Temperature:  $(23\pm 3)$  °C  
Humidity: 20%~80%  
Atmospheric pressure: Check the atmospheric pressure at the site
2. Inspection equipment requirements
  - 2.1 Verify the effectiveness of the equipment  
All testing equipment should be measured and qualified and within the effective use period.
  - 2.2 Voltmeter  
Voltmeter accuracy is not less than 0.5 grade; The accuracy of a digital meter or other automatic recording device shall not be less than 0.25%.
  - 2.3 Ammeter  
Ammeter accuracy is not less than 0.5 grade; The accuracy of a digital meter or other automatic recording device shall not be less than 0.25%
  - 2.4 Thermometer  
The accuracy of the thermometer is not less than  $\pm 0.5^{\circ}\text{C}$ ; The accuracy of other automatic recording devices is not less than  $\pm 1^{\circ}\text{C}$ .
  - 2.5 Load resistance  
The resistance of the load resistor or adjustable resistor (including all resistors of the external circuit) should be accurate to within 0.5%.
3. Activate the depassivation method
  - 3.1 Lithium thionyl chloride batteries have the characteristics of initial voltage hysteresis, which is carried out according to Table 1 in order to eliminate the voltage hysteresis phenomenon.

Table 1

Duration of storage	Load resistance/ $\Omega$	Discharge time/min
Within 12 months after delivery	200	30 ~ 60

3.2 The battery is activated at a temperature of  $23\pm 3^{\circ}\text{C}$ , and the battery to be activated is discharged according to the load resistance specified in Table 1. Between the two poles (load resistance includes external circuit resistance). After activation, set aside at room temperature for more than 1 hour and then test the load voltage.

### 3.3 Load voltage detection

The battery is connected between the poles at a temperature of  $23\pm 3^{\circ}\text{C}$  with the load resistance specified in Table 2 (the load resistance includes the external circuitry resistance), and measure the voltage between the two poles of the battery with a specified voltmeter. The results should meet the load voltage standard requirements in Table 2. Batteries that do not meet the load voltage standard values in Table 2 are rejected.

Table 2

Duration of storage	Load resistance/ $\Omega$	Load voltage standard value/v
Within 12 months after delivery	33	$\geq 3.25$

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