

Approval Sheet for

Lithium Thionyl Chloride Battery Datasheet

Model: ER18505

ER18505

Product Specification

Specification Approval Sheet

Model: ER18505

Prepared By/Date	Checked By/Date	Approved By/Date

	Confirmation	Date
Customer Approval		

Note: 1. Kindly please sign on the above and send it back to us if the sample is approved.
2. Kindly please contact us as soon as possible if the sample isn't approved. Thanks!

1. Model ER18505H Bobbin Type

2. Specification

1) Nominal voltage□	3.6V
2) Nominal capacity□	3500mAh(1mA / 2.0V)
3) Discharge end-voltage□	2.0V
4) Operating voltage□	3.3V(330Ω, in 5s)
5) Max constant discharge current□	100mA
6□Max. pulse current□	200mA
7) Ambient temperature range□	-55~ +85□
8) Storage life□	≥10 year, Yearly self-discharge ≤ 1%

3. Appearance & Dimension/Weight

1) Appearance:	Cylinder
2) Max dimension :	φ18.5mm×h50.5mm
3) Max weight:	32g

4. Performance Testing

Unless other requests , all tests are carried out in ambient temperature 20±5□.
Tests should be made within 45 days after receipt of the batteries.

Quality Data Inspection

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	Max ϕ 18.5×50.5mm
3.Weight	Weighed by balance with precision of 0.1g	Max 32g
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	≥3.65V
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 330 Ω in series, Reaching the target voltage in 5 seconds.	≥3.30V
6.Nominal discharge	330 Ω , 20±2 \square , Constant discharge to 2.0V.	≥2700mAh
7.Rapid discharge	100 Ω , 20±2 \square , Constant discharge to 2.0V.	≥2000mAh
8. Discharge at high temperature	Put battery in constant ambient temperature of 55±2 \square for 16 hours, discharge at 330 Ω to 2.0V/cell.	≥2800mAh
9.Discharge at low temperature	Put battery in constant ambient temperature of -40±2 \square for 16 hours, discharge at 330 Ω to 2.0V/cell	≥1300mAh
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of 20±5 \square , Measure the nominal capacity yearly for 10 years.	≤1%

Unless otherwise request , all tests are carried out in ambient temperature $20\pm 5^{\circ}\text{C}$.
Tests should be made within 45 days after receipt of the batteries.