



## MODEL : ER34615C

Lithium Thionyl Chloride Battery

### 1.SPECIFICATIONS:

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1) Nominal voltage:	3.6V
2) Nominal capacity:	19Ah(2mA Constant discharge to 2.0V)
3) Nominal discharge:	15mA(1200 $\Omega$ )
4) Rapid discharge:	60mA(330 $\Omega$ )
5) Discharge end-voltage:	2.0V
6) Operating voltage:	3.3V(330 $\Omega$ , in 5s)
7) Max constant discharge current:	60mA
8) Ambient temperature range:	-55~ +85°C
9) Storage life:	$\geq$ 10year, Yearly self-discharge $\leq$ 1%

### 2. Appearance & Dimension/Weight

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1) Appearance:	cylinder shape
2) Max dimension :	$\phi$ 34.0×h61.5mm
3) Max weight:	105g

### 3. Performance Testing

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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.

#### 3.1 Test Requirement

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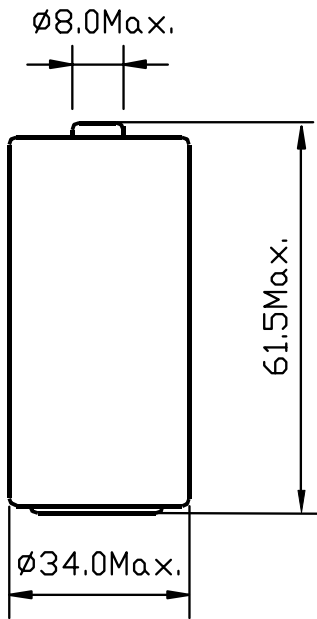
#### 3.2 Examination procedure & standard

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### Examination procedure & standard

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	$\phi 34.0 \times 61.5$ mm max
3.Weight	Weighed by balance with precision of 0.1g	105g max
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 3.64$ V
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 200 $\Omega$ in series, Reaching the target voltage in 5 seconds.	$\geq 3.30$ V
6.Nominal discharge	200 $\Omega$ , $20 \pm 2$ $^{\circ}$ C , Constant discharge to 2.0V.	$\geq 14.5$ Ah
7.Rapid discharge	56 $\Omega$ , $20 \pm 2$ $^{\circ}$ C , Constant discharge to 2.0V.	$\geq 9.0$ Ah
8. Discharge at high temperature	Put battery in constant ambient temperature of $55 \pm 2$ $^{\circ}$ C for 16 hours, discharge at 200 $\Omega$ to 2.0V/cell.	$\geq 13.5$ Ah
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2$ $^{\circ}$ C for 16 hours, discharge at 680 $\Omega$ to 2.0V/cell	$\geq 7$ Ah
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5$ $^{\circ}$ C , Measure the nominal capacity yearly for 10 years.	$\leq 1$ %

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



Notes:

Dimension: mm

Special terminations can be Made as requested.

T: Solder tabs

P: Axial pins

## ► MODEL NO.: ER34615H

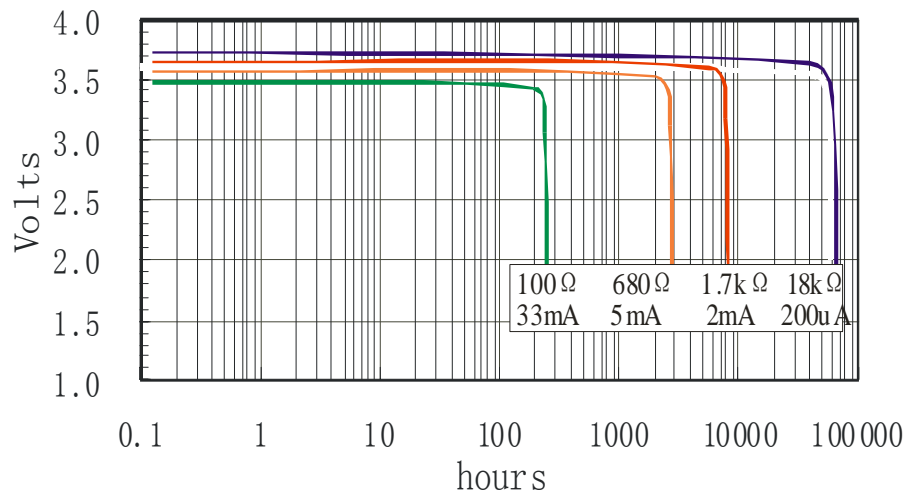
### ■ SPECIFICATION: ( $23 \pm 2^\circ\text{C}$ )

Nominal capacity (5mA ~2V):	19 A h
Rated voltage:	3.6 V
Max constant current of discharge:	20 mA
Max discharge current (pulse):	60mA
Weight:	105 g
Operating temperature range:	-55~85°C

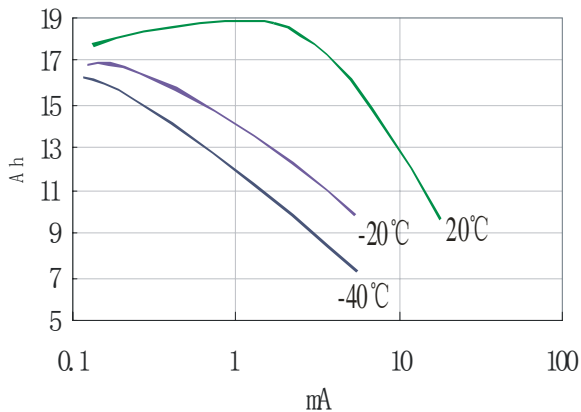
**U.L.** U. L. Component Recognition MH 29130

### ■ Discharge characteristics at $23 \pm 2^\circ\text{C}$

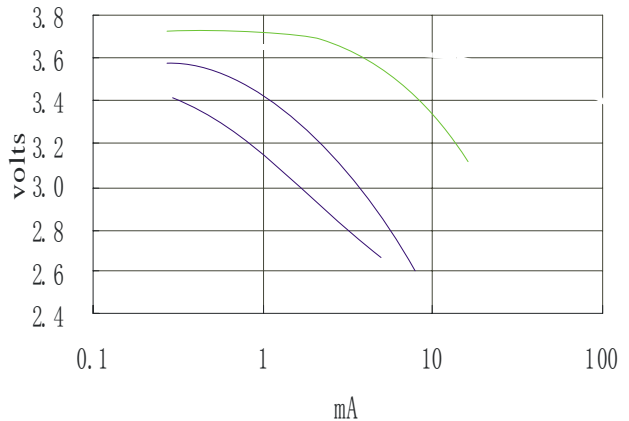
Discharge curve at  $23^\circ\text{C}$



### ■ Voltage VS. Temperature



### ■ Capacity VS. Current



### ■ Important Notes:

Do not short cut or charge the battery. Over-discharging, crushing, incinerating, and disassembling the battery are prohibited. Do not heat/use the battery beyond the permitted temperature range.