

## BAO TONG USA dba TYSONIC Batteries

### 1.MODEL NO.: ER14505H

### 2.SPECIFICATION:

- |                                    |  |
|------------------------------------|--|
| 1) Nominal voltage:                | 3.6V   |
| 2) Nominal capacity:               | 2400mAh(1mA Constant discharge to 2.0V)        |
| 3) Nominal discharge:              | 5.5mA(620 $\Omega$ )                           |
| 4) Rapid discharge:                | 16.5mA(200 $\Omega$ )                          |
| 5) Discharge end-voltage:          | 2.0V   |
| 6) Operating voltage:              | 3.3V(620 $\Omega$ , in 5s)                     |
| 7) Max constant discharge current: | 100mA  |
| 8) Ambient temperature range:      | -55~ +85°C                                     |
| 9) Storage life:                   | $\geq$ 10year, Yearly self-discharge $\leq$ 1% |

### 3. Appearance & Dimension/Weight

- |                    |                     |
|--------------------|---------------------|
| 1) Appearance:     | cylinder shape      |
| 2) Max dimension : | $\phi$ 14.5×h50.5mm |
| 3) Max weight:     | 21g                 |

### 4. Performance Testing

Unless otherwise request , all tests are carried out in ambient temperature 20±5°C.

Tests should be made within 45 days after receipt of the batteries.

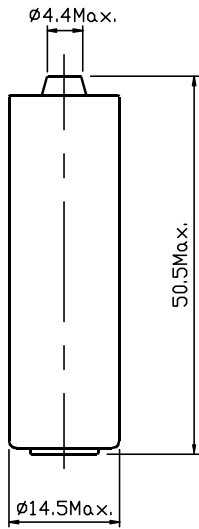
#### 4.1 Test Requirement

#### 4.2 Examination procedure & standard

**BAO TONG USA dba TYSONIC Batteries**

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimenaions	Measured by calipers with precision of 0.02mm	$\phi 14.5 \times 50.5\text{mm max}$
3.Weight	Weighed by balance with precision of 0.1g	21g max
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 3.64\text{V}$
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of $620 \Omega$ in series, Reaching the target voltage in 5 seconds.	$\geq 3.30\text{V}$
6.Nominal discharge	$620 \Omega$ , $20 \pm 2^\circ\text{C}$ , Constant discharge to 2.0V.	$\geq 1850\text{mAh}$
7.Rapid discharge	$220 \Omega$ , $20 \pm 2^\circ\text{C}$ , Constant discharge to 2.0V.	$\geq 1600\text{mAh}$
8. Discharge at high temperature	Put battery in constant ambient temperature of $45 \pm 2^\circ\text{C}$ for 16 hours, discharge at $620 \Omega$ to 2.0V/cell.	$\geq 1850\text{mAh}$
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2^\circ\text{C}$ for 16 hours, discharge at $6.8\text{K} \Omega$ to 2.0V/cell	$\geq 650\text{mAh}$
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5^\circ\text{C}$ , Measure the nominal capacity yearly for 10 years.	$\leq 1\%$

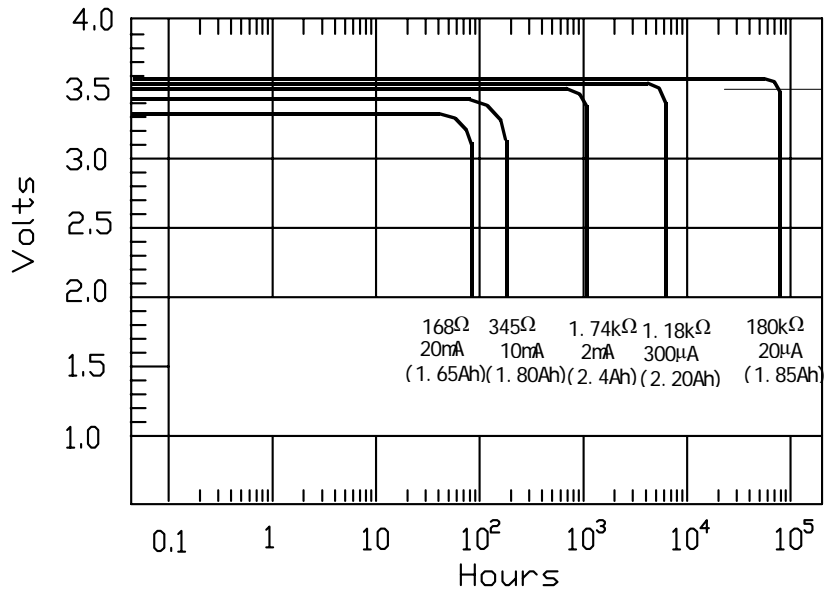
### ▲ MODEL NO.: ER14505H



■ SPECIFICATION: (23±2°C)

Nominal capacity (2mA ~2V):	2.4 A h
Rated voltage:	3.6 V
Max constant current of discharge:	100 mA
Max discharge current (pulse):	200 mA
Weight:	22 g
Operating temperature range:	-55~85°C

■ Discharge characteristics at 23±2°C



S: Standard termination

Notes:

Dimension: mm

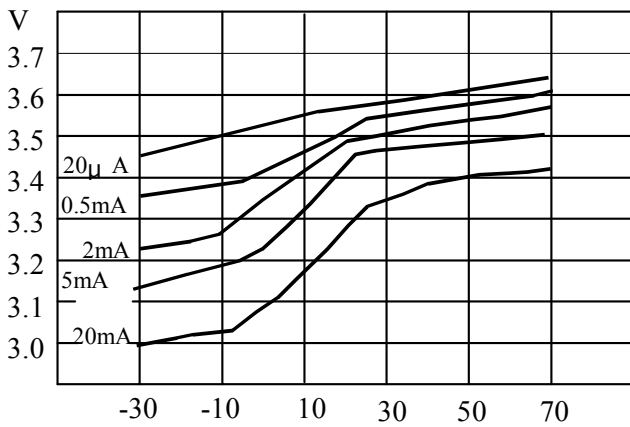
Special terminations can be

Made as requested.

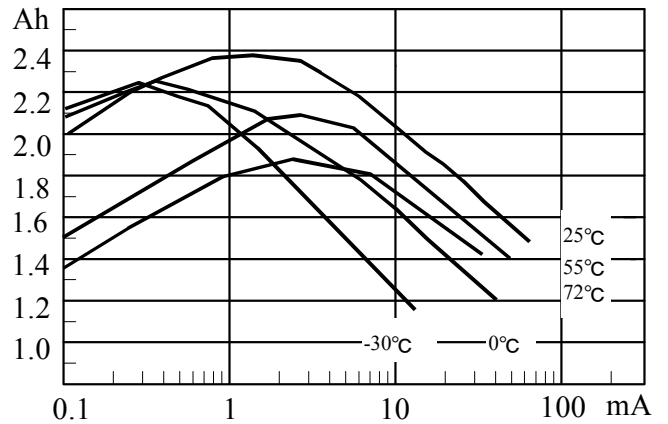
T: Solder tabs

P: Axial pins

■ Voltage VS. Temperature



■ Capacity VS. Current



■ Important Notes:

Do not short 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.