

# HONG KONG BATTERIES MANUFACTORY LIMITED



## Data Sheet for Model No. LN033448AL

### : SCOPE

This Specification describes the requirements of the lithium-ion rechargeable battery supplied by HONG KONG BATTERIES Under GB/T18287-2000



### : BASIC CHARACTERISTICS

|      |                                                                                             |                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1  | Battery Type                                                                                | LN033448AL                                                                                                                                               |
| 2.2  | Material of Case                                                                            | Alumimium Case                                                                                                                                           |
| 2.3  | Nominal Voltage                                                                             | 3.7 V                                                                                                                                                    |
| 2.4  | Nominal Capacity                                                                            | 550 mAh                                                                                                                                                  |
| 2.5  | Internal Resistance                                                                         | < 60 mΩ                                                                                                                                                  |
| 2.6  | Discharge Cut-off Voltage                                                                   | 2.75V (Per Cell)                                                                                                                                         |
| 2.7  | Maximum Charge Current                                                                      | 1.0C ~ 1.5C                                                                                                                                              |
| 2.8  | Maximum Discharge Current                                                                   | 1.5C                                                                                                                                                     |
| 2.9  | Maximum Charge Voltage                                                                      | 4.2V                                                                                                                                                     |
| 2.10 | Charge method                                                                               | CC/CV (constant current/constant voltage)                                                                                                                |
| 2.11 | Dimension                                                                                   | Thickness: 3.9 ± 0.1mm<br>Width: 34.0 ± 0.2mm<br>Height: 48.0 ± 0.5 mm                                                                                   |
| 2.12 | Weight                                                                                      | About 14.3 (g) only for Reference.                                                                                                                       |
| 3.13 | Operating Temperature:                                                                      | Charging Temperature: 0~45<br>Discharging Temperature: -20~60                                                                                            |
| 3.14 | Storage Temperature                                                                         | 1 month -20~60<br>3 month -20~45<br>1 year -20~25                                                                                                        |
| 3.15 | Relative Humidity                                                                           | 65 ± 20%                                                                                                                                                 |
| 3.16 | Visual Requirements                                                                         | Defects, such as scratches, flaws, dirty spots, rust, deformation, discoloration, leakage, etc., which damages commercial values shall not be presented. |
| 3.17 | Voltage of shipment                                                                         | 3.70V ~ 3.75V                                                                                                                                            |
| 3.18 | UL is pending for this item. Contact us for detail                                          |                                                                                                                                                          |
| 3.19 | HkbiL reserves the right to alter or amend the design & specification without prior notice. |                                                                                                                                                          |

### : TECHNICAL REQUIREMENTS

Testing Conditions (unless otherwise specified)

Temperature: :15~35  
Relative Humidity : 45%~75%  
Atmospheric pressure: :86~106Kpa

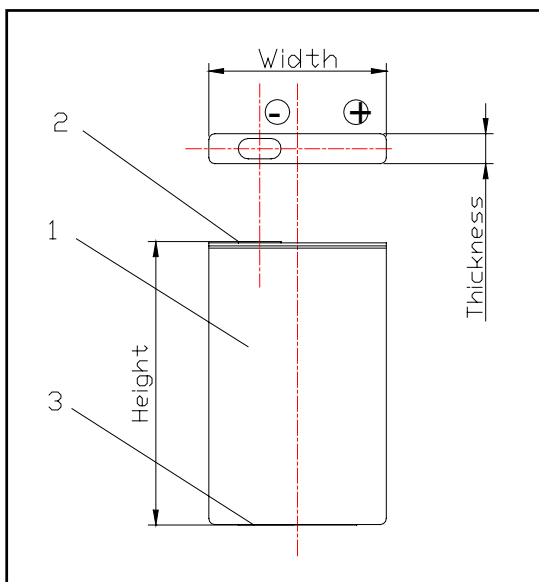
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### : RECOMMENDED PROTECTION FUNCTIONS

The standard charge method is CC/CV (constant current/constant voltage)

| NO | Device                                        | Items                               | Requirements       |
|----|-----------------------------------------------|-------------------------------------|--------------------|
| 1  | Charger                                       | Charge termination voltage          | $4.200 \pm 0.049V$ |
| 2  | Protection SEIKO Functions<br>(For reference) | Excess Charge detection voltage.    | $4.275 \pm 0.025V$ |
| 3  |                                               | Excess Charge release voltage.      | $4.175 \pm 0.050V$ |
| 4  |                                               | Discharge termination voltage.      | $3.00 \pm 0.10V$   |
| 5  |                                               | Excess discharge detection voltage. | $2.3 \pm 0.08V$    |
| 6  |                                               | Excess discharge release voltage    | $2.4 \pm 0.10V$    |
| 7  |                                               | Excess current detection value      | $2.7 \pm 0.2A$     |

### Bare Cell-Dimensions Without Tube (mm)



| (mm)         | Thickness                             | Width     | Length    |
|--------------|---------------------------------------|-----------|-----------|
| Bare cell    | <b>3.9</b>                            | <b>34</b> | <b>48</b> |
| Battery Pack | (1) & (3) + positive / (2) - Negative |           |           |

### Note:

- Use a specified charger.
- Do not throw the battery into fire, or heat.
- Do not short-circuit the battery terminals.
- Do not disassemble the battery.

