

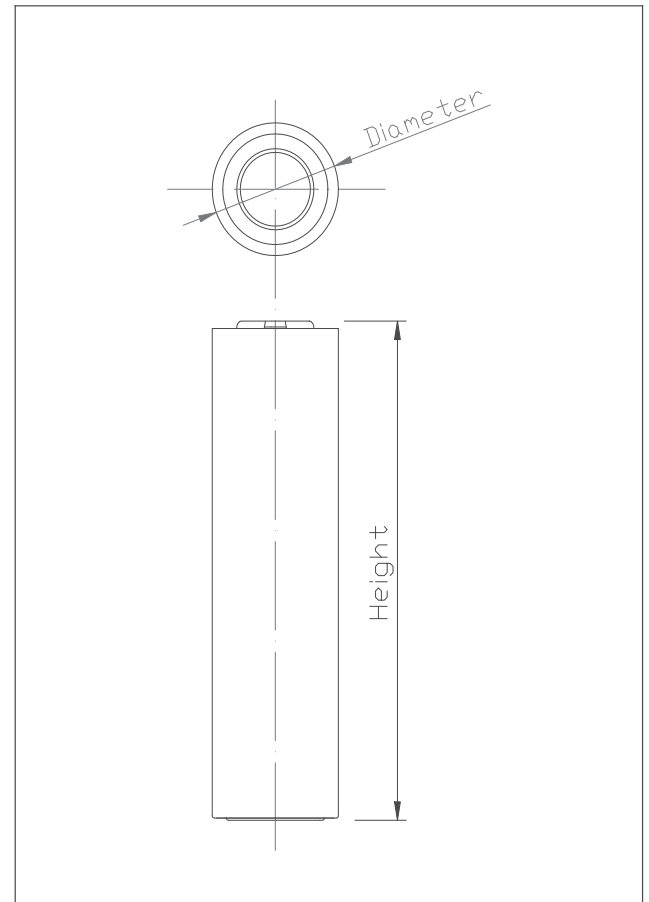
# BELLIIONAA800

## 3.7V 800 mAh

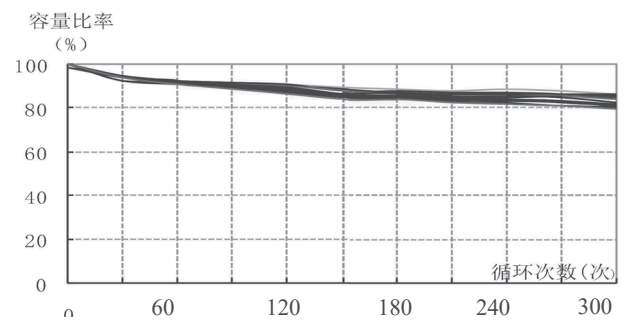
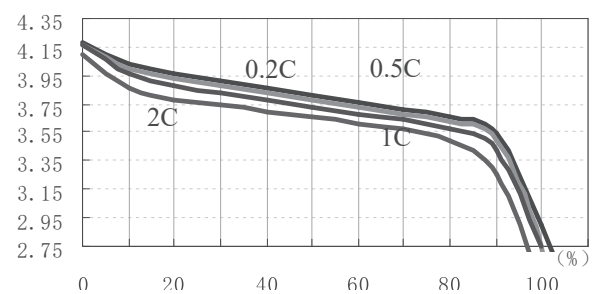
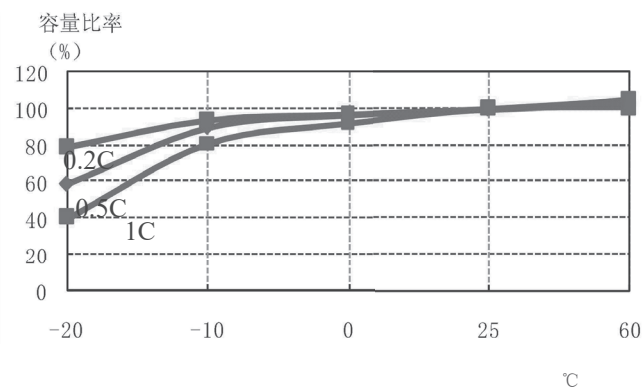
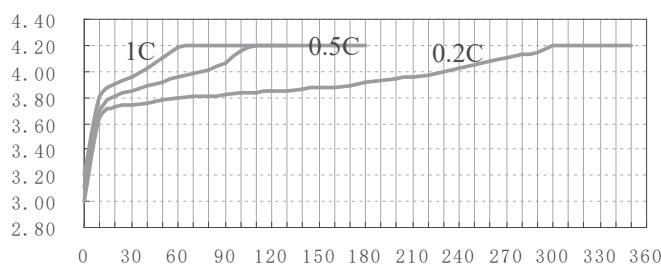
### 1.0 Typical characteristics

|                                           |                       |                             |
|-------------------------------------------|-----------------------|-----------------------------|
| Model                                     | 14500-800mAh          |                             |
| Nominal Capacity<br>(0.2C <sub>5</sub> A) | 800mAh                |                             |
| Nominal Voltage                           | 3.7V                  |                             |
| Max. Charging Voltage                     | 4.2 V                 |                             |
| Max. Discharging Cut-off Voltage          | 2.75V                 |                             |
| Max. Charging Rate                        | 1 C <sub>5</sub> A    |                             |
| Max. Discharging Rate                     | 2 C <sub>5</sub> A    |                             |
| Diameter                                  | 14.0±0.3 mm           |                             |
| Height                                    | 49.8±0.5mm            |                             |
| Weight                                    | 18g                   |                             |
| Internal Impedance                        | 100 mΩ (After charge) |                             |
| Charging method<br>(CC/CV)                | Standard              | 0.5 C <sub>5</sub> A×7.5hrs |
|                                           | Fast                  | 1 C <sub>5</sub> A×2.5hrs.  |
| Operating Temperature                     | Charge                | 0°C~45°C<br>32°F~113°F      |
|                                           | Discharge             | -20°C~60°C<br>-4°F~140°F    |
|                                           | Storage               | -20°C~45°C<br>-4°F~113°F    |

### 2.0 Outline



### 3.0 Characteristics



# BELLIIONA A800

## 3.7V 800 mAh

### 4.0 PERFORMANCE

| NO. | ITEMS                               | STANDARDS                                                                                                                                                                                                                                                                                                                 | TESTING METHODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Normal Temperature Discharging      | <p>Discharge capacity/ nominal capacity<math>\times 100\%</math></p> <p><math>\times 100\%</math></p> <p>A) <math>0.2C_5A \geq 100\%</math></p> <p>B) <math>0.5C_5A \geq 98\%</math></p> <p>C) <math>1C_5A \geq 95\%</math></p> <p>D) <math>2C_5A \geq 85\%</math></p> <p>The charge-discharge curve should be smooth</p> | <p>Under the conditions of 1 standard atmospheric pressure, ambient temperature of <math>25^{\circ}\text{C} \pm 5^{\circ}\text{C}</math>, and relative humidity of 45% to 80%, the battery is charged at 0.5C standard (if there is no special description below, it is placed under this condition, and it is charged according to this method. ), put it on hold for 10min, discharge with 0.2C<sub>5</sub>A, 0.5C<sub>5</sub>A, 1C<sub>5</sub>A, 2C<sub>5</sub>A to the lower limit voltage of 2.75V, cycle three times, when one reaches the standard, it meets the standard requirements (the same below).</p> |
| 2   | Normal Temperature Charge Retention | <p>Remaining capacity<math>\geq</math>nominal capacity<math>\times 80\%</math></p> <p>Recovery capacity <math>\geq</math> nominal capacity <math>\times 85\%</math></p> <p>Open circuit voltage reduction rate <math>\leq 5\%</math></p> <p>Internal resistance increase rate<math>\leq 20\%</math></p>                   | <p>Measure the initial state and initial capacity of the battery. After standard charging, place it in an open circuit for 30 days to measure the final state of the battery; discharge at 0.5C<sub>5</sub>A to 2.75V to measure the remaining capacity of the battery; 0.5C/0.5C to measure the recovery capacity of the battery. It can be cycled three times. When one reaches the standard, it meets the standard requirements.</p>                                                                                                                                                                             |
| 3   | Cycle Life Test                     | <p>Capacity<math>\geq</math>nominal capacity<math>\times 80\%</math></p>                                                                                                                                                                                                                                                  | <p>Measure the initial state and initial capacity of the battery, perform 0.5C/0.5C cycles, and measure the final state of the battery after 300 cycles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4   | Storage                             | <p>0.2C<sub>5</sub>A discharge time</p> <p>Batteries stored for 3 months <math>\geq 4.5\text{h}</math>;</p> <p>Batteries stored for 6 months <math>\geq 4.25\text{h}</math>;</p> <p>Batteries stored for 12 months <math>\geq</math></p>                                                                                  | <p>Measure the initial capacity of the battery, after the battery is charged to <math>4.20 \pm 0.02\text{V}</math>, measure the initial state of the battery before storage, after 3 months, 6 months, and 12 months of storage at room temperature, measure the final state of the battery, and then measure the final state of the battery at 0.5C/ The discharge time of the battery was</p>                                                                                                                                                                                                                     |

|  |  |     |                                      |
|--|--|-----|--------------------------------------|
|  |  | 4h. | recorded by cycling 3 times at 0.2C. |
|--|--|-----|--------------------------------------|

### Remarks

- (1) Standard charging: Under the condition of ambient temperature of  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , charge at  $0.5\text{C}5\text{A}$ , when the battery terminal voltage reaches the charging limit voltage of 4.2V, change to constant voltage charging, and stop charging until the charging current is less than or equal to  $0.01\text{C}5\text{A}$ .
- (2) Initial state: the initial appearance of the battery, open circuit voltage, AC internal resistance.
- (3) Final State: Final appearance, open circuit voltage, AC internal resistance of the battery.
- (4) Remaining capacity: The first discharge capacity of the battery after a specific testing procedure.
- (5) Recovery capacity: The discharge capacity after the battery is restored to its state by repeated charging and discharging after a specific testing procedure.
- (6)  $0.5\text{C}/1\text{C}$  ( $0.5\text{C}/0.5\text{C}$ ,  $0.5\text{C}/0.2\text{C}$ ): charge at  $0.5\text{C}5\text{A}$ , when the battery terminal voltage reaches the charging limit voltage of 4.2V, it will switch to constant voltage charging, and stop until the charging current is less than or equal to  $0.01\text{C}5\text{A}$ . Charging, after charging is completed, set aside for 5 minutes, and then discharge with a constant current of  $1\text{C}5\text{A}$  ( $0.5\text{C}5\text{A}$ ,  $0.2\text{C}5\text{A}$ ) to a final voltage of 2.75V.  $0.5\text{C}/1\text{C}$ .

### 5.0 Remarks on the packaged battery

The following warnings should appear on the packaged battery

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

### 6.0 Warnings and Precautions When Using Batteries

To prevent possible battery leakage, heat generation, and explosion, please observe the following precautions:

## WARNING!

- It is strictly forbidden to immerse the battery in seawater or water. When not in use, it should be placed in a cool and dry environment.
- It is forbidden to use and indwell the battery near hot and high temperature sources, such as fire, heater, etc.
- Please use a special charger for lithium-ion batteries when charging.
- It is strictly forbidden to reverse the positive and negative poles to use the battery.
- It is strictly forbidden to insert the battery directly into the power outlet.
- Do not throw the battery into a fire or heater.
- It is forbidden to use metal to directly connect the positive and negative electrodes of the battery to short circuit.
- It is forbidden to transport or store batteries together with metals, such as hairpins, necklaces, etc.
- It is forbidden to knock or throw, step on the battery, etc.
- It is forbidden to directly weld the battery and pierce the battery with nails or other sharp objects.

## Be careful !

- It is forbidden to use or place the battery in high temperature (in the hot sun or in a very hot car), otherwise it may cause the battery to overheat, catch fire or fail to function, and shorten its life.
- It is forbidden to use it in places with strong static electricity and strong magnetic fields, otherwise it will easily damage the battery safety protection device and bring unsafe hidden dangers.
- If the battery leaks and the electrolyte enters the eyes, please do not rub it, rinse the eyes with clean water, and immediately send to the doctor for treatment, otherwise it will hurt the eyes.
- If the battery emits peculiar smell, heats up, discolors, deforms, or has any abnormality during use, storage, or charging, immediately remove the battery from the device or charger and stop using it.
- If the electrode is dirty, it should be wiped with a dry cloth before use, otherwise it may cause poor contact and function failure.
- Discarded batteries should be covered with insulating paper to prevent fire and explosion.

## 7.0 . WARRANTY

The battery packs are warranted to conform to the specification for 12 months from the ex-factory date.

FBTECH's warranty shall not be applicable in the cases where customer improperly handle, operate, test, install, service and disassemble the battery packs or fails to follow the instructions, cautions, warnings, notes provided in the specifications.