Lithium-Ion Battery Dry Cell Product Specification

Product Model: CU-PO-L2-6PC101

Version No.: V1.0

Issue Date: 20250703

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1. Basic Product Information

Item	Specification	
Cell Model	425868	
Nominal Voltage	3.7V	
Nominal Capacity	>=2000mAh (0.2C)	
Dimensions (L x W)	130mm*75mm	
Electrochemical System	622/Cu	
Active Material Content	622 96.7%	/
Single-Side Coating Areal Density (mg/cm2)	622 19.75	/
Electrode Compaction Density (g/cc)	622 3.35	/
Cell Structure	Stacked	
Recommended Electrolyte Filling Amount	6.0g	
Recommended Electrolyte	/	

2. Charge/Discharge Parameters

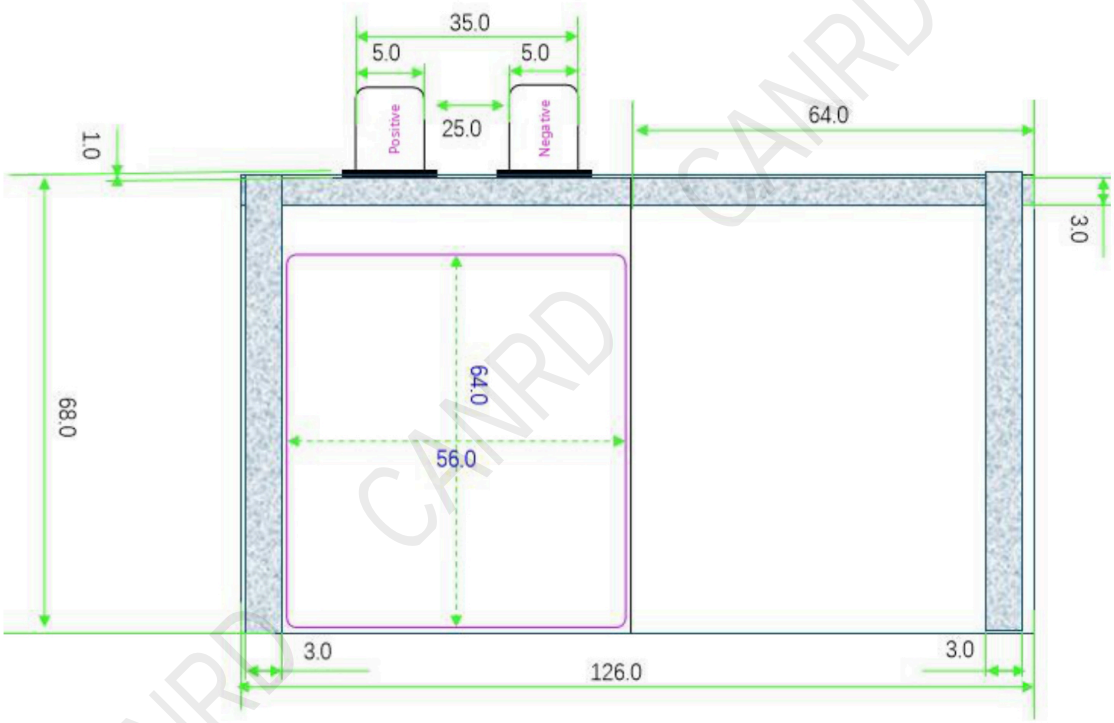
Charge Voltage: 4.3V	Standard Charge Current: 0.5C
Discharge Cut-off Voltage: 3.0V	Standard Discharge Current: 1.0C

3. Environmental Adaptability

Item	Parameter Range
Charge Operating Temperature	10°C - 60°C
Discharge Operating Temperature	0°C - 45°C
Storage Temperature	25°C (Recommended)
Relative Humidity	<=85% RH (Non-condensing)

4. Appendix

Dimensional Diagram:



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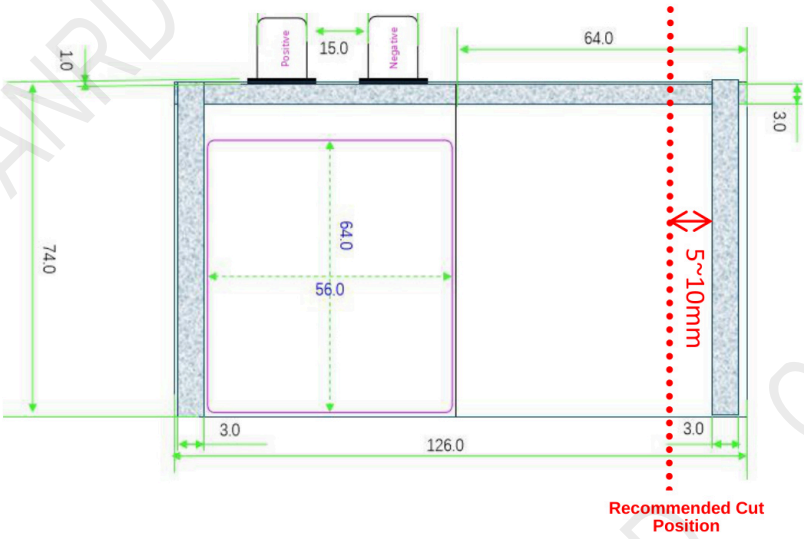
5. Dry Cell Post-Processing

The following instructions use manual electrolyte filling as an example. Operations must be performed in a dry room or glove box.
The cell orientation shown below is defined as the front side of the cell.

1) Inspection: Before operation, inspect the cell for abnormalities, such as: (1) broken tabs; (2) air leakage; (3) damaged aluminum-plastic pouch, etc.

2) Create the electrolyte filling port: Cut a filling port 5-10 mm from the edge of the gas pouch. PS:



Strongly recommended: retain part of the gas pouch during the first electrolyte filling!!

3) Electrolyte filling: Rotate the cell 90° counterclockwise relative to the figure on the right, so that the cut opening of the gas pouch faces upward (a battery holder may be used for assistance), and place it vertically. Then place it on a balance and tare it. Use a pipette / disposable dropper to inject an appropriate amount of electrolyte through the filling port.

4) Vacuum rest: Place in a vacuum resting chamber, evacuate to <= -85 kPa, and rest for 3 min.

5) Vacuum pre-sealing: Vacuum seal, evacuating to <= -85 kPa.

6) Measure OCV after electrolyte filling: Before charge/discharge, the open-circuit voltage is approximately 0 V (depending on the chemistry, the voltage may be positive or negative).

7) Rest: Recommended to rest for 48 h at room temperature or 24 h at 45°C. Depending on cell size, electrolyte wetting, and filling amount, the temperature and time may be adjusted appropriately to actual needs.

8) Formation and capacity grading after rest (first charge/discharge / activation): See the recommended procedure below.

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6. Recommended Formation and Capacity Grading Procedure:

6.1 Hot-press formation is not recommended

6.2 Conditions for formation and capacity grading without hot pressing:

NEWARE Test System: 25°C, 0.2 MPa;

1) Rest 3 min;

2) 0.05C CC charge to 4.20 V;

3) Rest 3 min;

4) 0.05C CC discharge to 3.00 V;

(Complete the first charge-discharge cycle and calculate the initial Coulombic efficiency)

6.3 Note: If the cell needs to remain in a test-ready state for an extended period after capacity grading, it is recommended to perform one additional half-charge after capacity grading.

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