

LI-ION POWER TECHNOLOGY CO.,LTD.

3.2V 100AH

——LPT100BF

TECHNICAL DATA SHEET

6000 life cycles
2C Continuous
5C Peak

MSDS
UN38.3

TECHNICAL PARAMETERS

1. Nominal voltage

3.65V

2. Nominal voltage

3.2V

3 Nominal Capacity

(discharge at 0.3C to voltage of 2.5V at 23°C±5°C)

100Ah (0.3C)

4. Standard Charging Current

1C

5. Standard Charging method

Under the conditions of 25°C±5°C, 1C Constant current charge to 3.65V, then Constant voltage 3.65V charge till charge current decline to $\leq 0.05C$.

6. Max.charge current

200A/ 2C



TECHNICAL PARAMETERS

7. Max. Discharge current

300A/ 3C

8. Discharge cut-off voltage

2.5V

9. Operating temperature/Relative humidity %

Charging: 0°C~45°C, 65%±20%RH

Discharging: -20°C~60°C, 65%±20%RH

10. Recommended Storage temperature

15°C~35°C

11. Cell Weight

2.35kg

12. Impedance

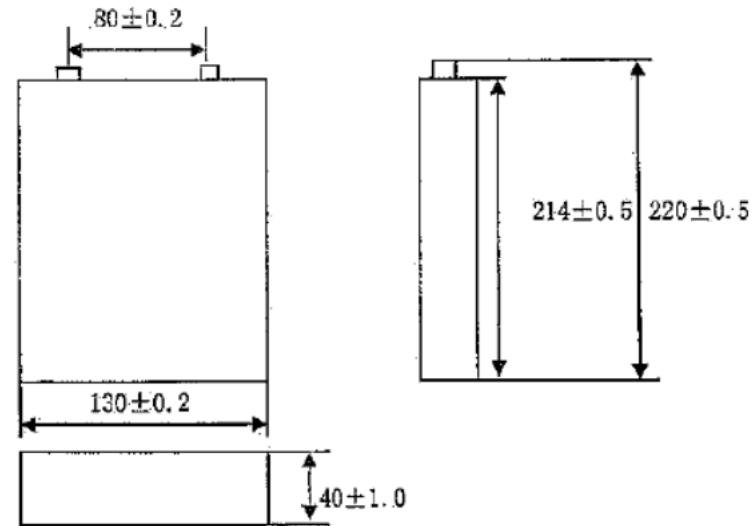
≤0.6mΩ

13. Cell dimension

thickness: 40.2mm±1.0mm

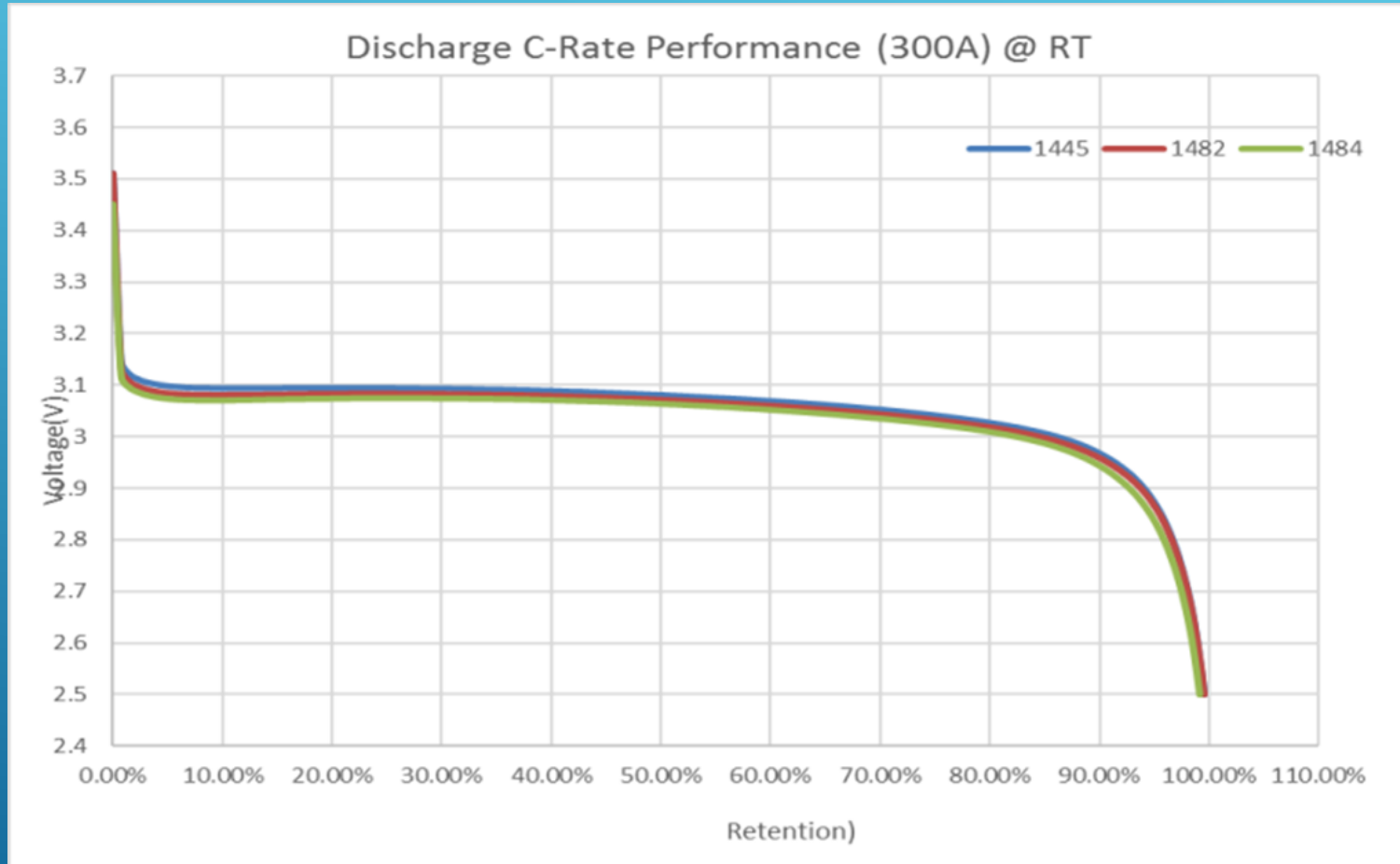
Width: 130.2mm±0.2mm

Length: 220.2mm±0.5mm



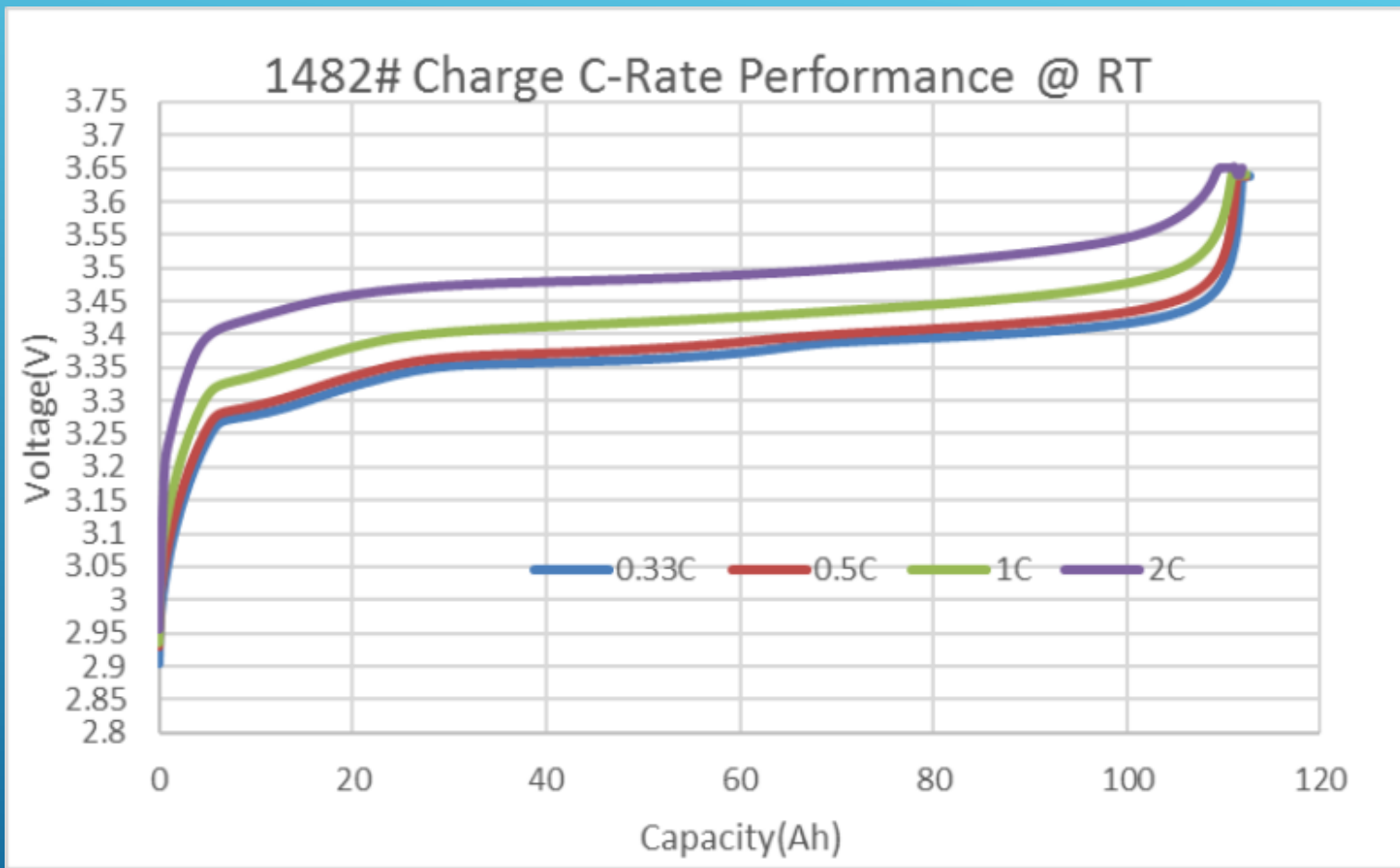


TECHNICAL CURVES



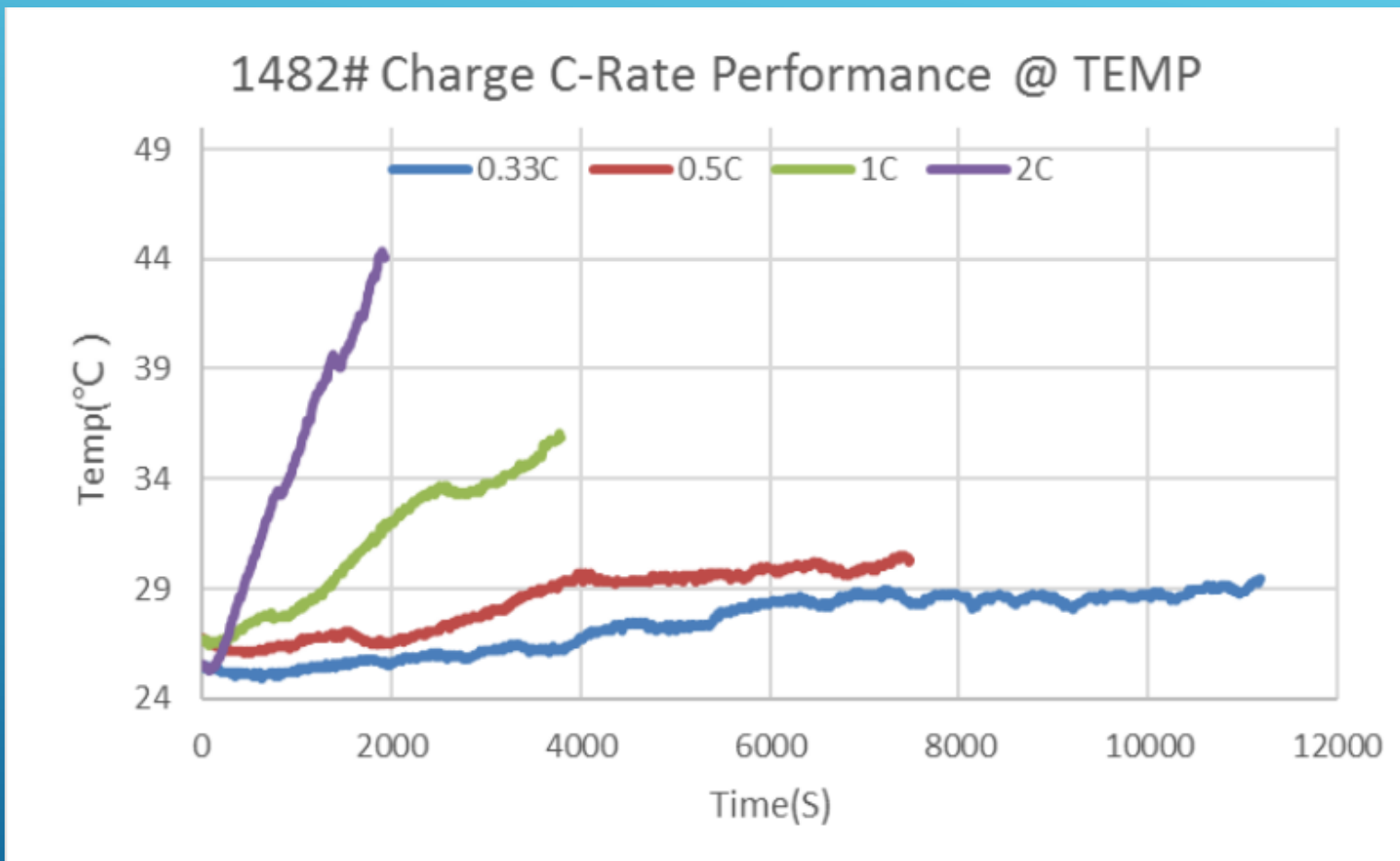


TECHNICAL CURVES

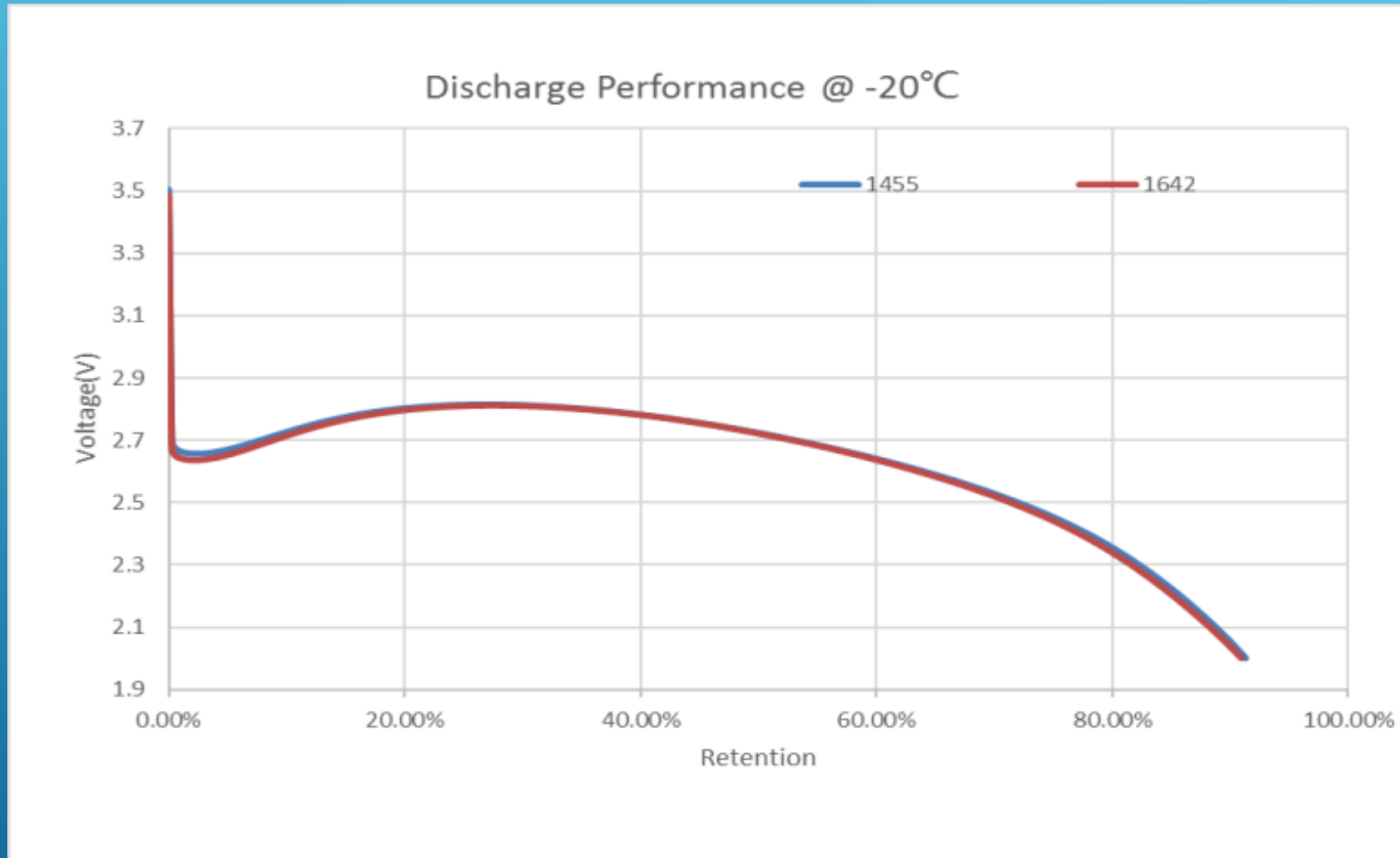




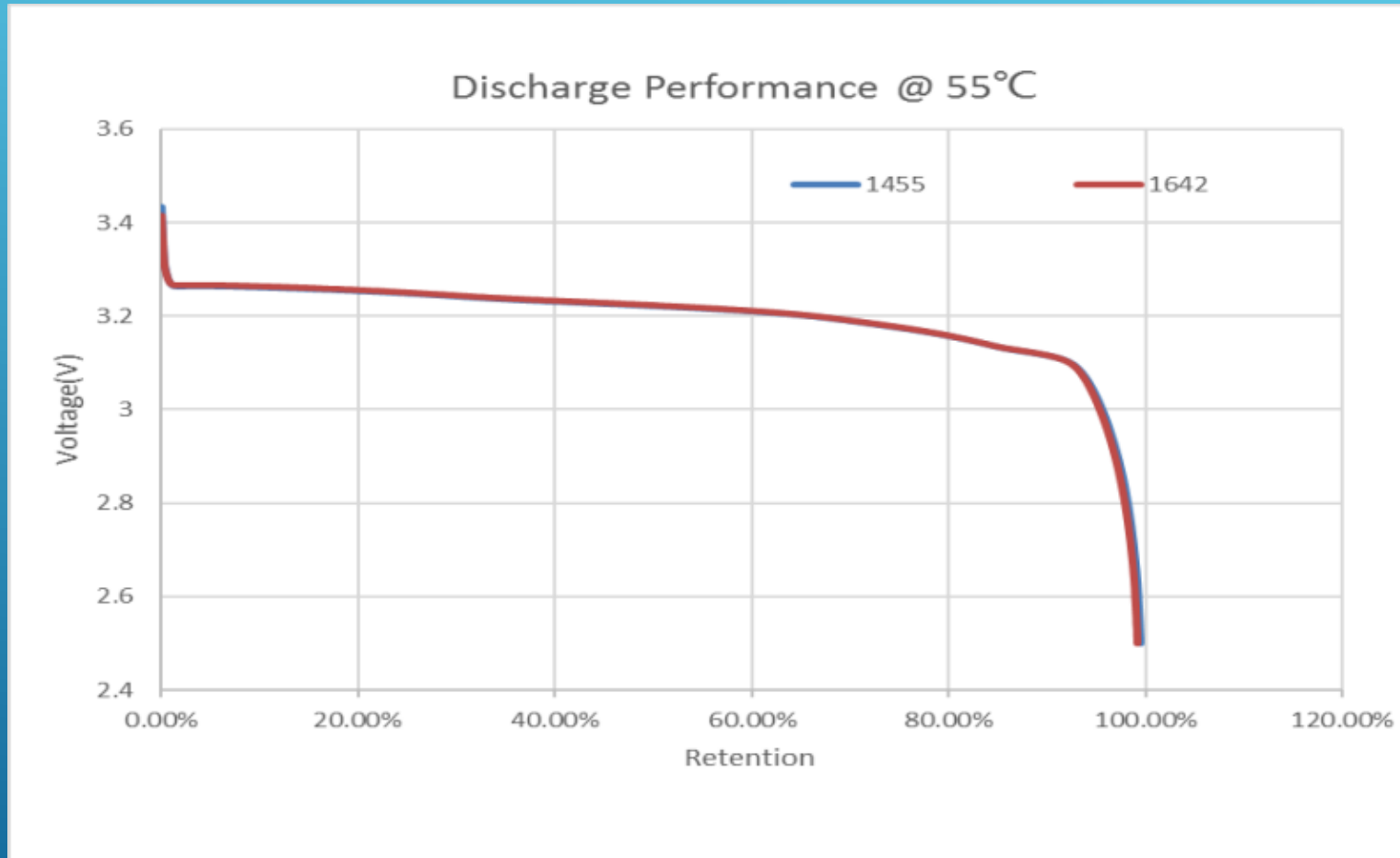
TECHNICAL CURVES



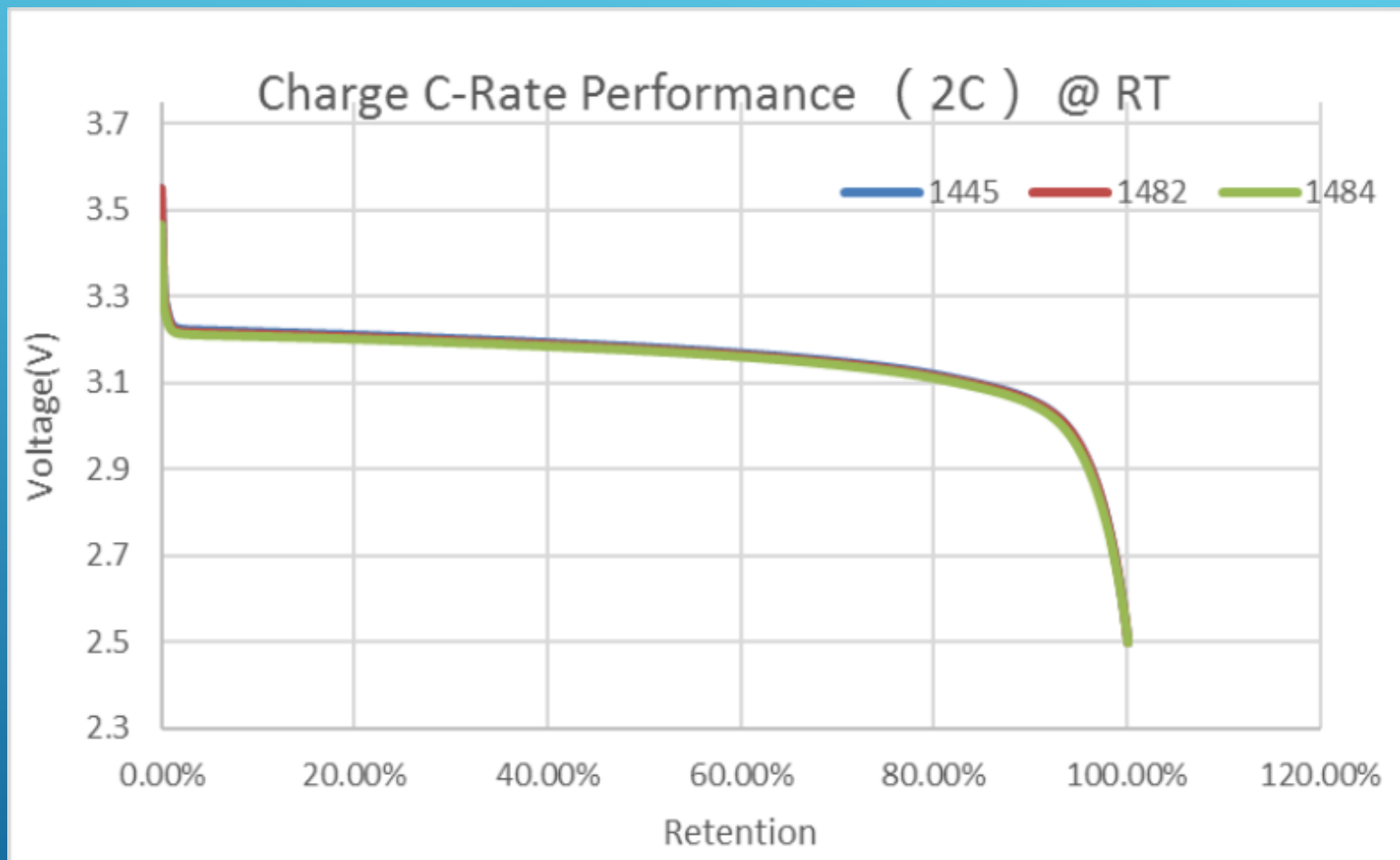
TECHNICAL CURVES



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TECHNICAL CURVES



▶ Shipment

- ▶ The Cell shall be shipped in voltage range of 3.2 ~ 3.4V or in accordance with customers' requirement. The remaining capacity before charging shall be changed depending on the storage time and conditions.

▶ Warranty

- ▶ The Warranty period of cell is made according to business contract, However, even though the problem occurs within this period, LPT won't replace a new cell for free as long as the problem is not due to the failure of LPT manufacturing process or is due to customer's abuse or misuse.
- ▶ LPT will not be responsible for trouble occurred by handling outside of the precautions in instructions. LPT will not be responsible for trouble occurred by matching electric circuit, cell pack and charger.
- ▶ LPT will be exempt from warrant any defect cells during assembling after acceptance.

▶ Precautions and Safety Instructions

- ▶ Lithium-ion rechargeable batteries subject to abusive conditions can cause damage to the cell and/or personal injury. Please read and observe the standard cell precautions below before using utilization. The customer is required to contact LPT in advance, if and when the customer needs other applications or operating conditions than those described in this document.
- ▶ LPT will take no responsibility for any accident when the cell is used under other conditions than those described in this Document.

▶ Standard cell Precautions

- ▶ a. Do not expose the cell to extreme heat or flame.
- ▶ b. Do not short circuit, over-charge or over-discharge the cell.
- ▶ c. Do not subject the cell to strong mechanical shocks.
- ▶ d. Do not immerse the cell in water or sea water, or get it wet..
- ▶ f. Do not disassemble or modify the cell.
- ▶ g. Do not handle or store with metallic like necklaces, coins or hairpins, etc.
- ▶ h. Do not use the cell with conspicuous damage or deformation.
- ▶ i. Do not connect cell to the plug socket or car-cigarette-plug.
- ▶ j. Do not make the direct soldering onto a cell.
- ▶ k. Do not touch a leaked cell directly.
- ▶ l. Do not use for other equipment.
- ▶ m. Do not use Lithium-ion cell in mixture.
- ▶ n. Do not use or leave the cell under the blazing sun (or in heated car by sunshine).
- ▶ o. Keep cell away from children.
- ▶ p. Do not drive a nail into the cell, strike it by hammer or tread it.
- ▶ q. Do not give cell impact or fling it.

▶ Cell Operation Instructions

▶ Charging

- ▶ a. Charge the cell in a temperature range of 0°C to + 50°C.
- ▶ b. Charge the cell at a constant current of 0.3C until 3.65V, and then at a constant voltage of 3.65V until 0.05C. Charge rates greater than 1C are NOT recommended. (C : Rated Capacity of cell)
- ▶ c. Use a constant current, constant voltage (CC/CV) lithium-ion (Li+) cell charge controller.
- ▶ d. Do not continue to charge cell over specified time.

▶ Discharging

- ▶ a. Recommended cut-off voltage to 2.2V. Recommended max continuous discharge current is 3C.
- ▶ b. For maximum performance, discharge the cell in a temperature range of -20°C to +50°C.

▶ Storage Recommendations

- ▶ In case of long period storage (more than 3 months), storage the cell at temperature range of -10 ~ +45°C, low humidity, no corrosive gas atmosphere, No press on the cell; After more than 3 months, the batteries need to be charged according to the standard charge and discharge process.



BATTERY PACKS MADE OF 3.2V 100AH CELLS



- ▶ HK HQ Office: BRIGHT WAY TOWER, NO.33 MONG KOK ROAD, KOWLOON, HONGKONG
- ▶ USA Office: 7427 South Main Street, Midvale, Utah 84047
- ▶ China Factory: No.8, Dongtin Lake Road, Economic and Development Zone, Qinhuangdao, China.

▶ **Welcome to Contact:**

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