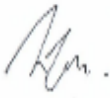



Technical Data Sheet

PD3555

2015. 08. 11.

Preparation	Review	Approval
		



routejade

The energy storage company, Creative

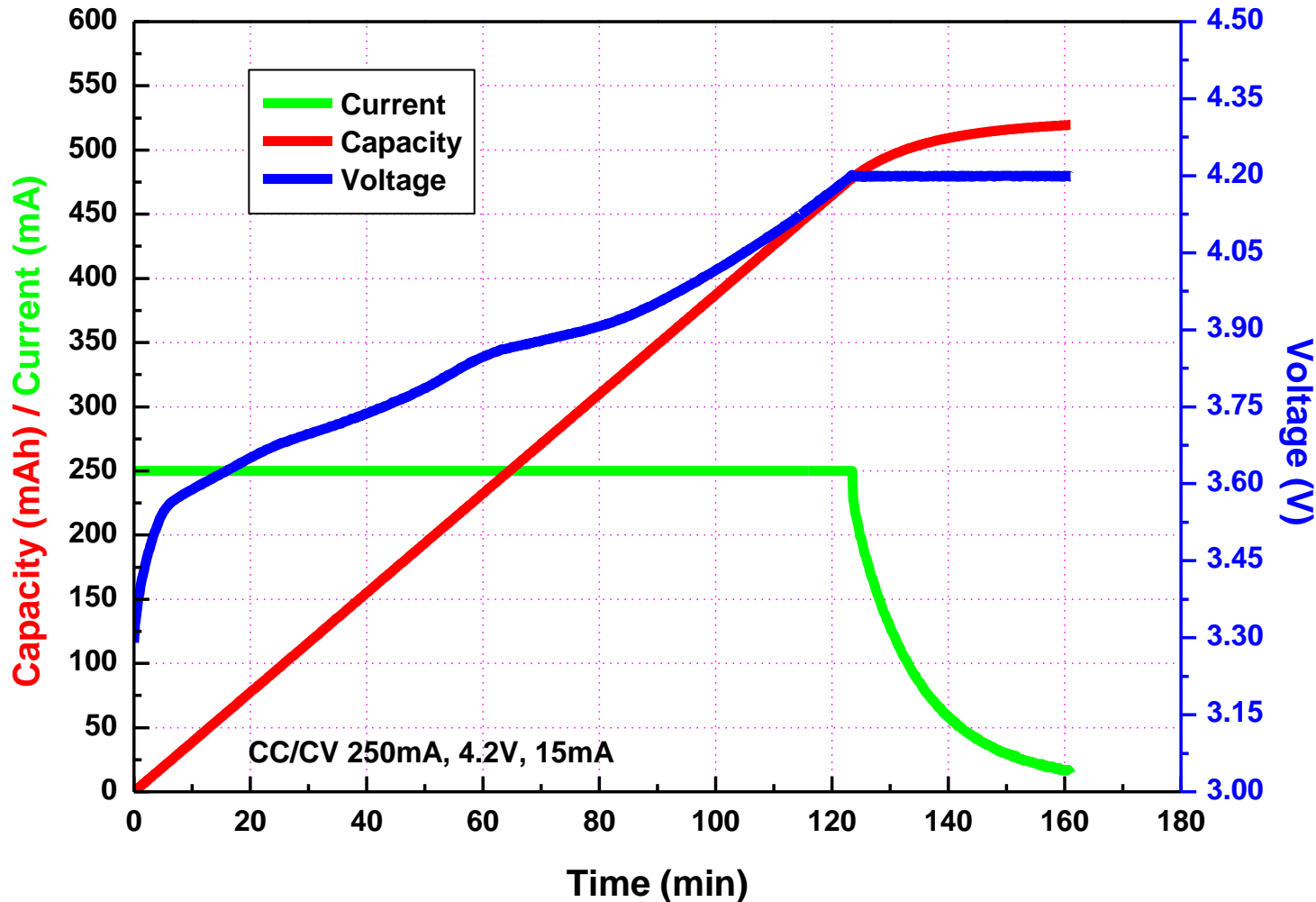
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1. Specification

Model	PD 3555	
Nominal Capacity	500 mAh (0.2C, 3.0V Cut-off)	
Minimum Capacity	490 mAh (0.2C, 3.0V Cut-off)	
Nominal Voltage	3.7 V	
Dimension	Thickness	Max. 5.7 mm (shipping charge state)
	Diameter	Max. 35.0 mm
Charge Method	CC-CV	
Charge Voltage	4.2 V	
Charge Current	Standard 250 mA (End - Current : 15mA)	
Discharge Current	Standard 100 mA, Max. 1000mA	
Discharge end voltage	3.0 V	
Discharge Temperature	- 20°C ~ + 60°C	
Internal Impedance	Max. 200 mohm	
Weight	approx 14 g (± 1 g)	

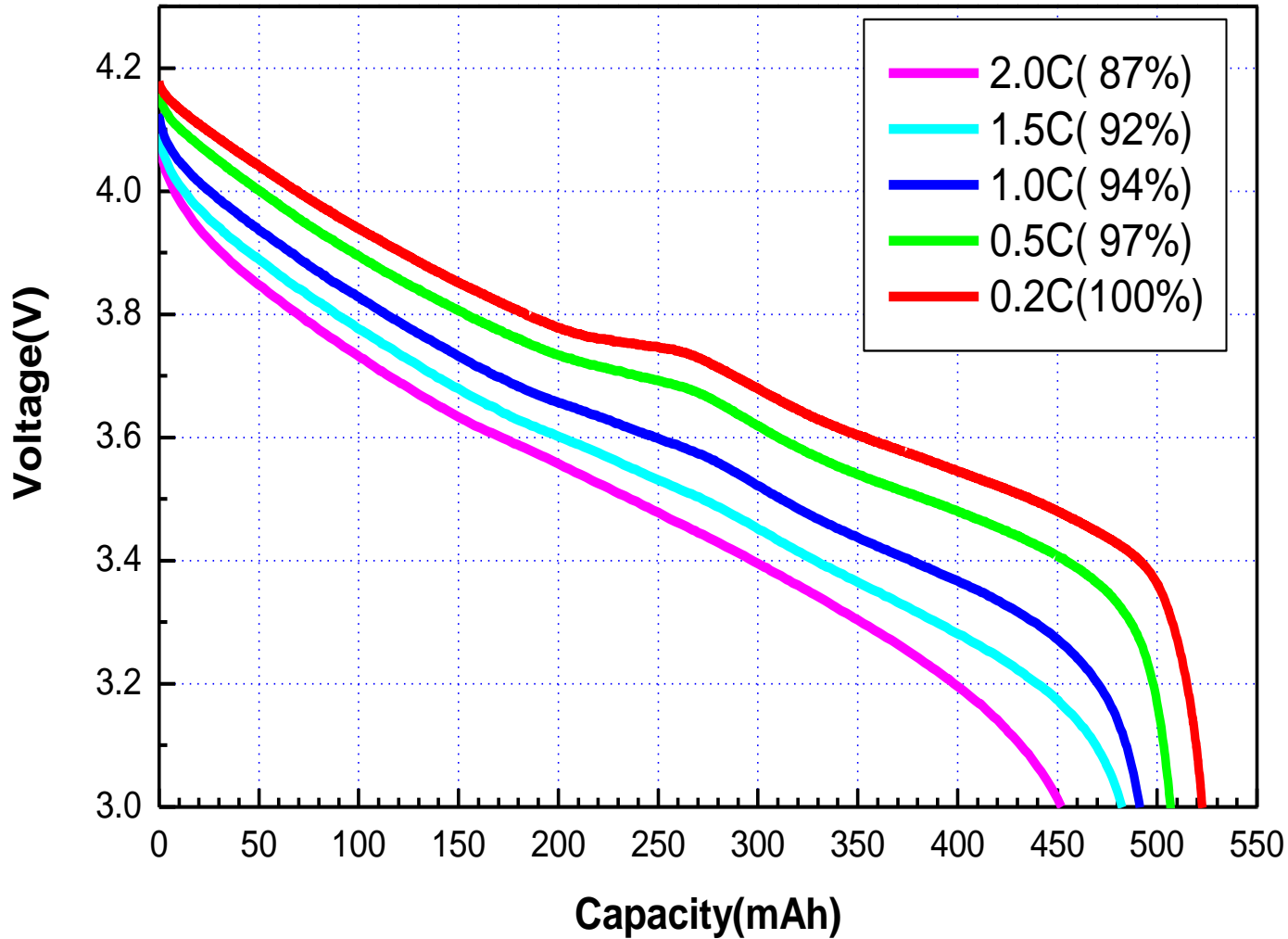
2.1. Charge Characteristics at 25°C



Mode Name : PD3555
Nominal Capacity : 500mAh
Test date :
Temp : RT

Charge condition
Current : 0.5 C (250.mA)
Cut-off : 0.03 C (15mA)

2.2. Discharge Characteristics at 25°C



Mode Name : PD3555
Nominal Capacity : 500mAh
Test date :
Temp : RT

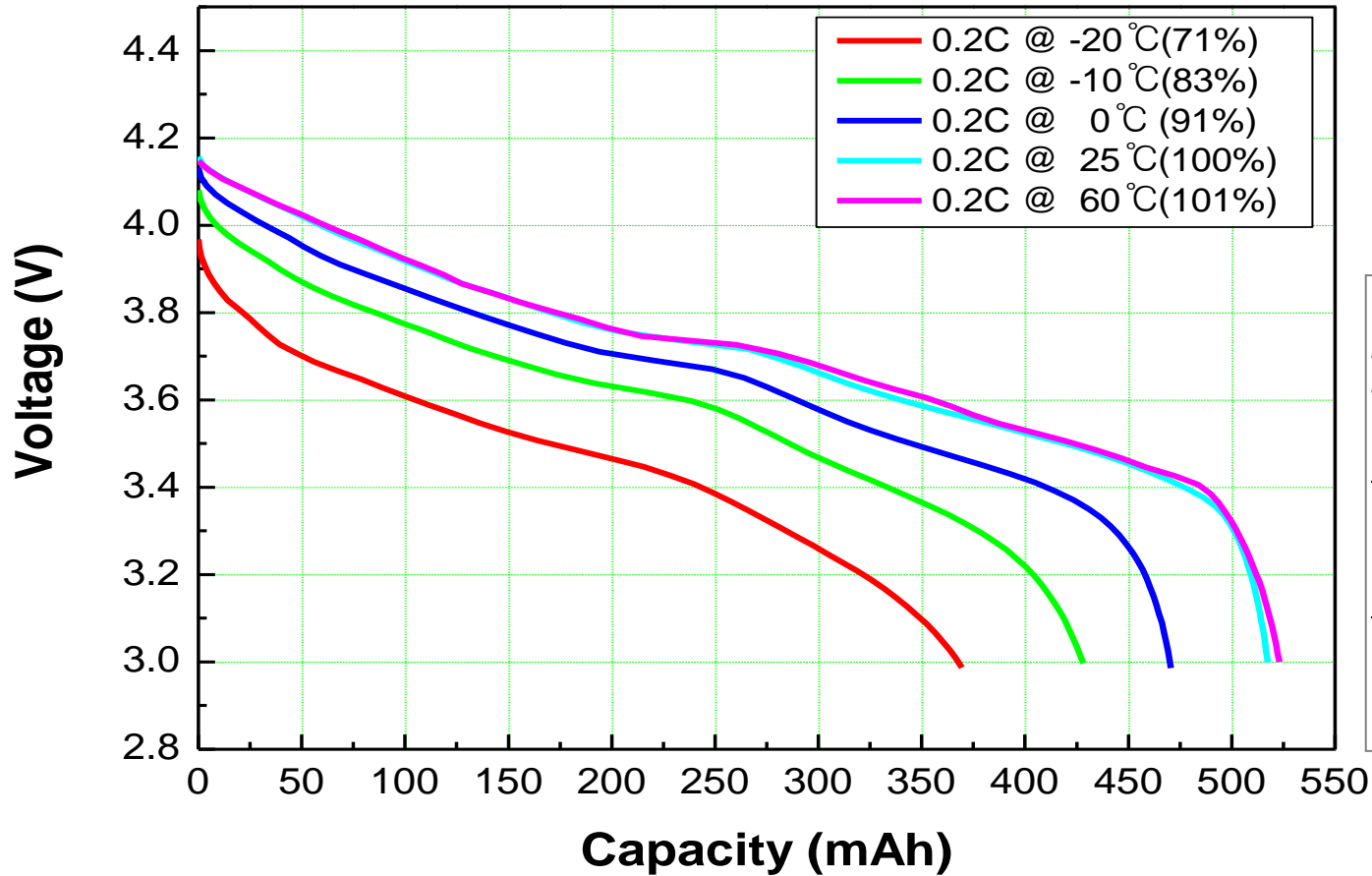
Charge condition

Current : 0.5 C (250mA)
Cut-off : 0.03 C (15mA)

Discharge Condition

Current : 0.2, 0.5, 1, 1.5, 2.0 C
Cut-off : 3.0 V

2.3. Discharge Characteristics with temperature

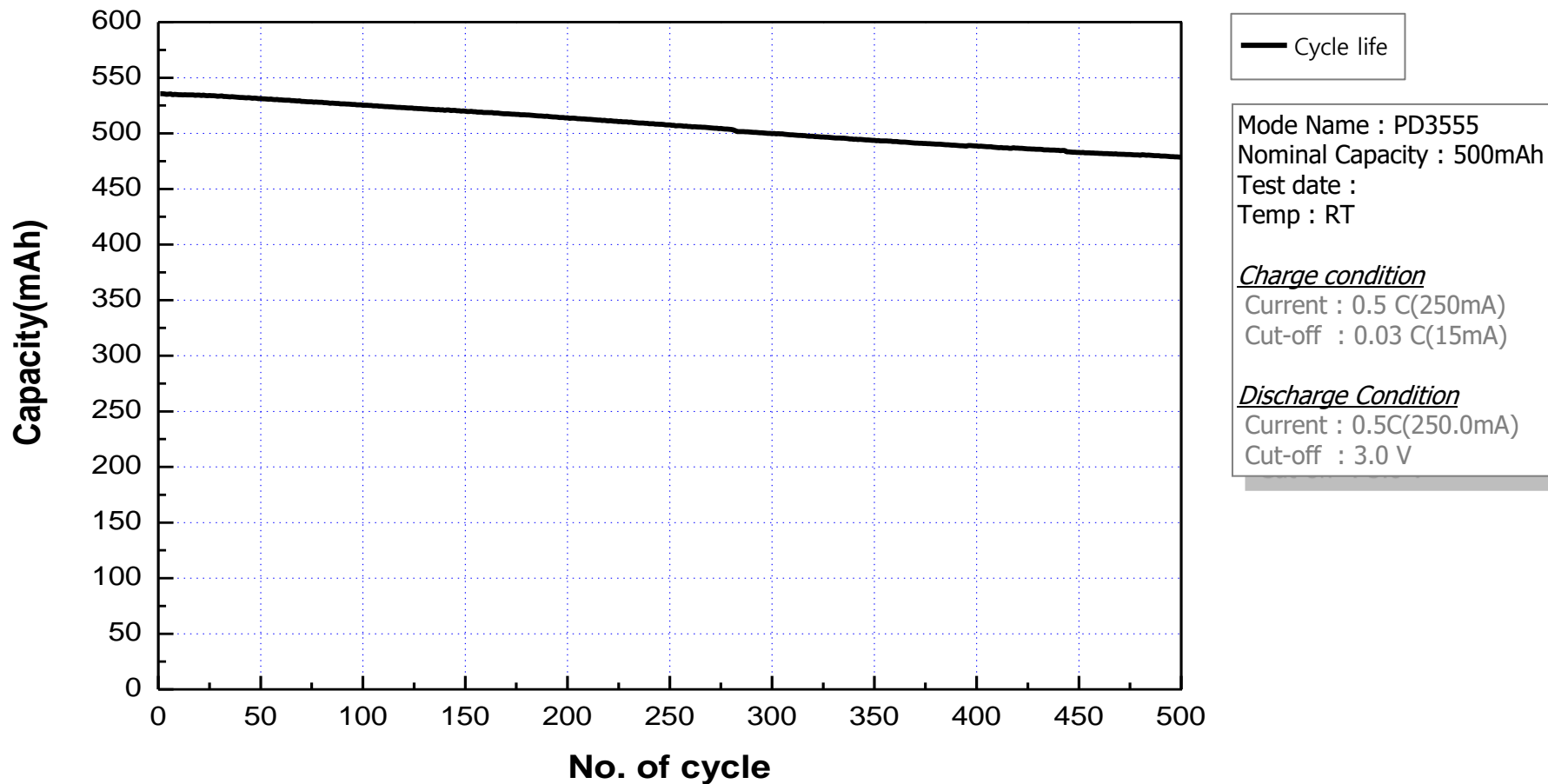


Mode Name : PD3555
Nominal Capacity : 500mAh
Test date :
Temp : RT

Charge condition
Current : 0.5 C (250mA)
Cut-off : 0.03 C (15mA)

Discharge Condition
Current : 0.2 C (100mA)
Cut-off : 3.0 V

2.4. Cycle life – 0.5C charge/ 0.5C discharge



3. Reliability

3.1. Humidity test (60 °C, 90% RH, 1week)

** Average of 10 samples.*

	Before storage	After storage	Δ
Weight, g	14.40	14.41	0.07%
Thickness, mm (at RT)	5.49	5.61	2.80%
Residual capacity, mAh	515.24	459.13	89%
Recovery capacity, mAh	515.24	475.62	92%

4. Safety Test

No.	Test Name	Requirements(Criteria)	Result
4-1.	Overcharge Test	No fire, No explosion No venting or cell temperature should not exceed 150°C.	Pass
4-2.	130°C Heating Test	After cell temperature reaching at 130±2°C, No fire, No explosion No venting or cell temperature should not exceed 200°C.	Pass
4-3.	55°C External Short Circuit (UL 1642)	No fire, No explosion, No venting. or cell temperature should not exceed 150°C.	Pass
4-4.	Impact Test (UL 1642)	No fire, No explosion No venting.	Pass
4-5.	Nail Penetration Test (RS C 0017)	No fire, No explosion No venting.	Pass