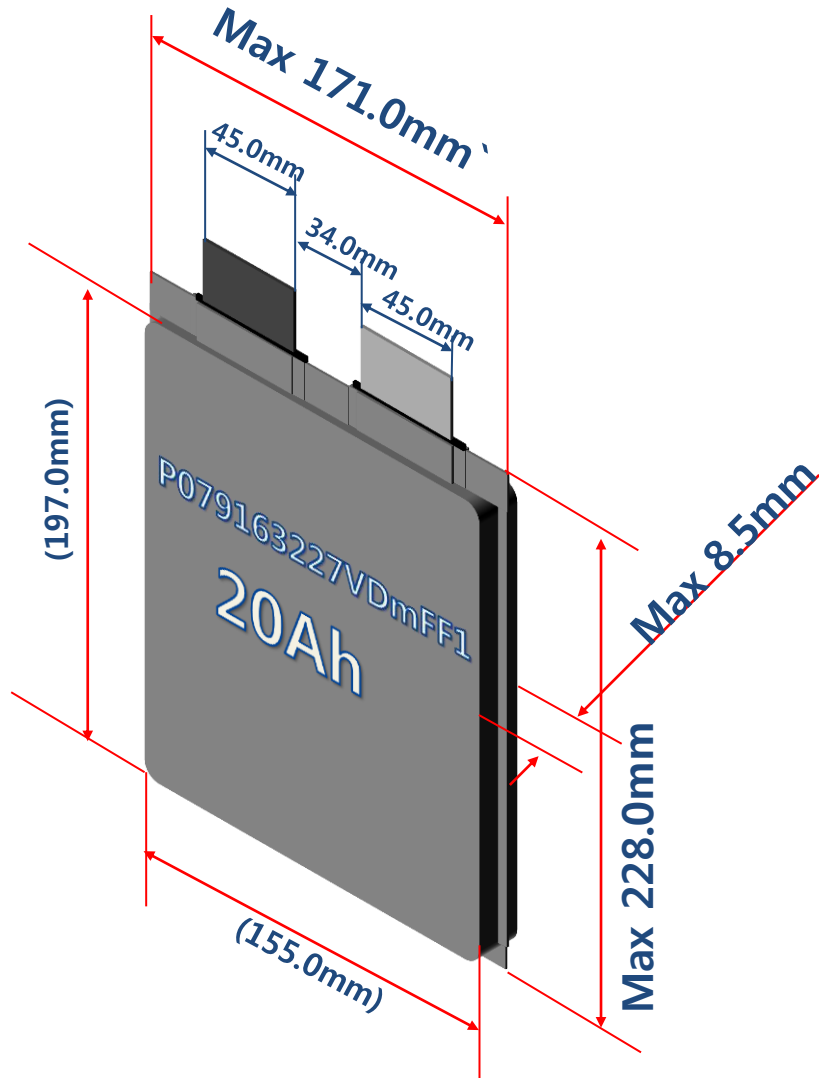


# Cell specification (TB\_079170227mFF1. 20Ah)



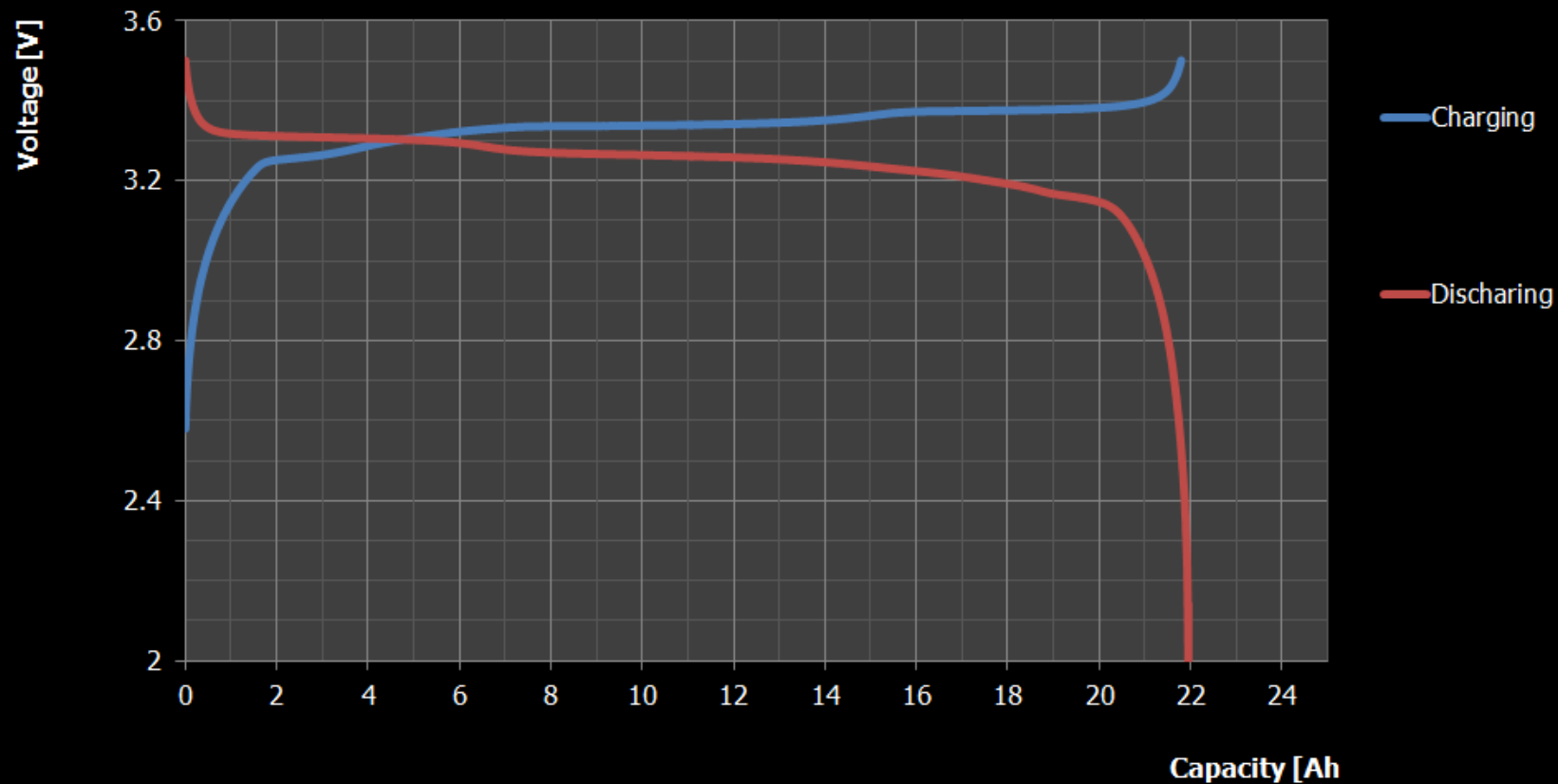
● Model	TB079170227mFF1	
● Nominal capacity	20Ah	
● Nominal voltage	3.2	
● Dimension	Thickness	7.9±1.5mm
	Width	169.5±1.5mm
	Length	226.5±1.5mm
● Weight	540g±7g	
● Operating voltage	2.0 ~ 3.6V	
● AC Impedance	2.5mΩ	
● DC Resistance	5.0Ω	
● Charging current	Standard	4.0 A (0.2C)
	Max	20.0 (1.0C)
● Discharging current	Standard	4.0 A (0.2C)
	Max	100.0 A (5C)
● Operating temperature	0 ~ 45°C	
● Cycle life (0.5C charging/0.5C discharging, @23±3°C)	Ret 70% after 1000 cycle	
● Energy Density	Volumetric	211.01Wh/L
	Gravimetric	118.5Wh/Kg

## Charging/Discharging Profile

1.0C = 20A

Charging : CCCV, 3.6V, 0.3C, 0.05C cut off

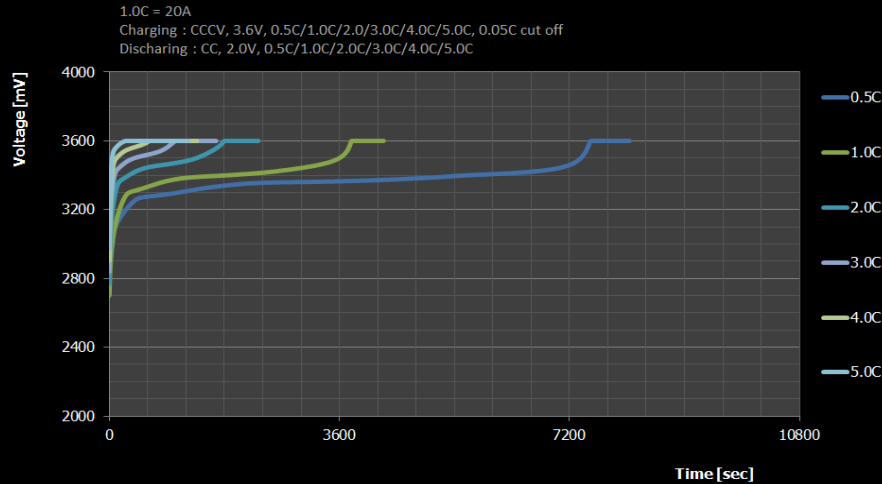
Discharging : CC, 2.0V, 0.3C



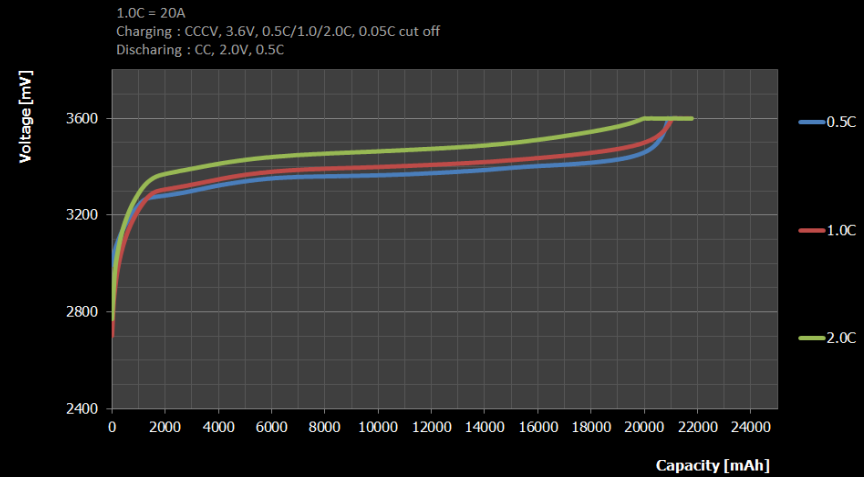
# Rate charging performance

Under Testing

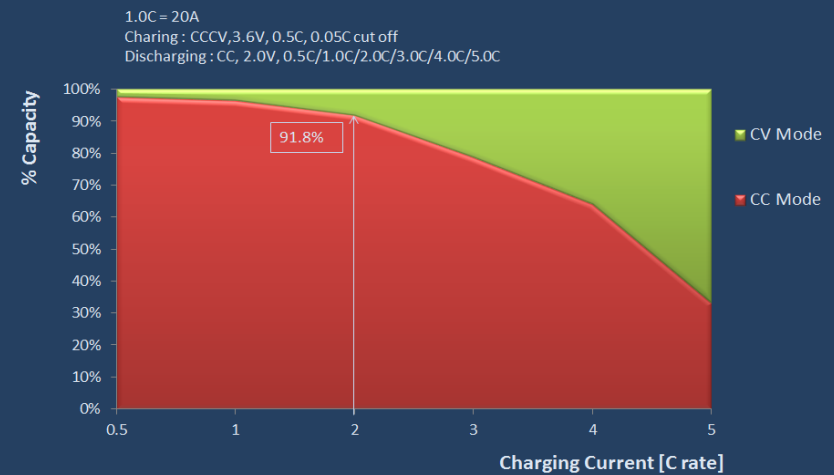
**Voltage vs Charging time with various charging current**



**Charging Performance**



**% Charging Capacity of CC and CV Charging Mode**



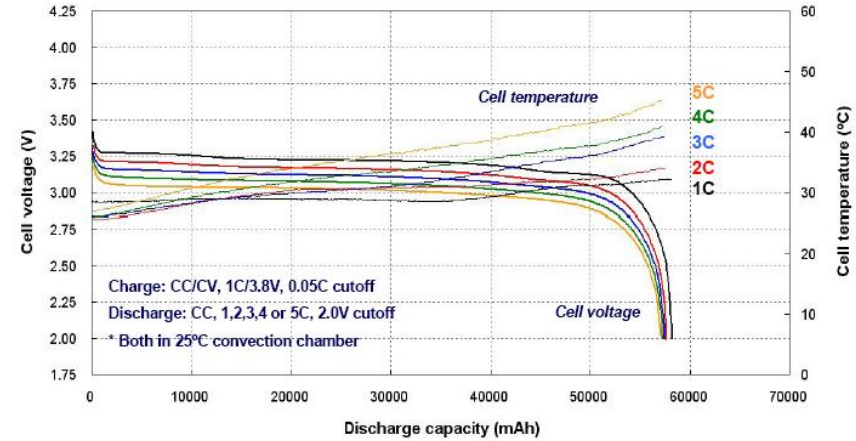
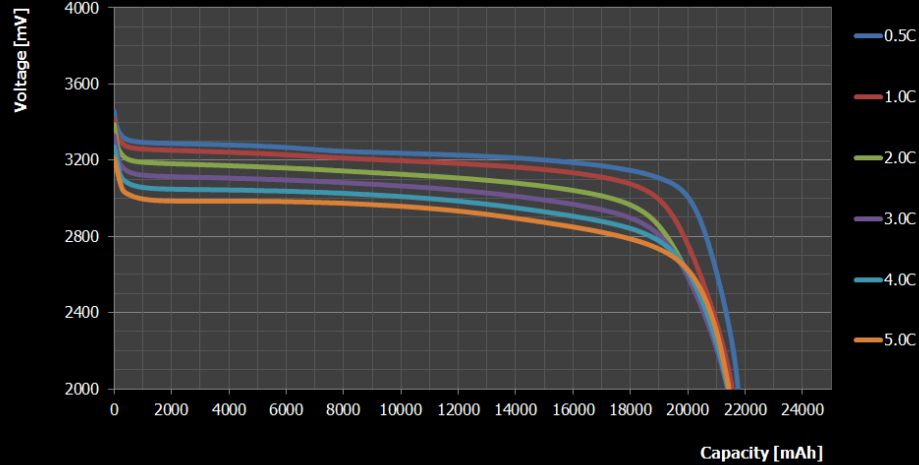
# Rate discharging performance

Under Testing

Top Battery

## Discharging Performance #1

1.0C = 20A  
 Charging : CCCV, 3.6V, 0.5C, 0.05C cut off  
 Discharging : CC, 2.0V, 0.5C/1.0C/2.0C/3.0C/4.0C/5.0C



## C rate vs Operating Voltage

1.0C = 20A  
 Charging : CCCV, 3.6V, 0.5C, 0.05C cut off  
 Discharging : CC, 2.0V, 0.5C/1.0C/2.0C/3.0C/4.0C/5.0C

