UR18650ZM2 Data Sheet (Tentative)

Apr. 2018

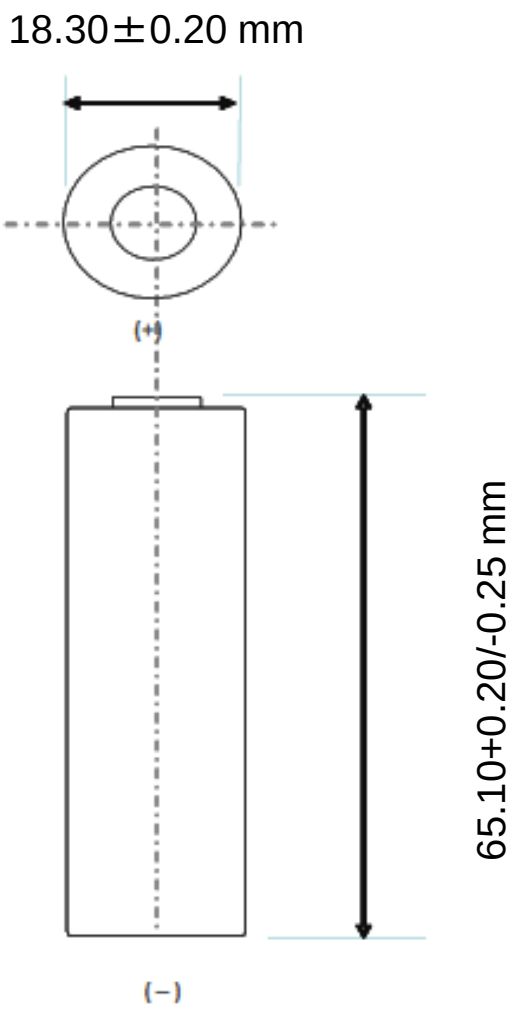
Automotive & Industrial Systems Company of Panasonic Group

Rechargeable Battery Business Division, SANYO Electric Co., Ltd.

Item		Specifications	Notes
Rated Capacity		2420mAh	0.49A(0.2C) discharge at 20℃
Capacity	Minimum	2470mAh	0.49A(0.2C) discharge at 25℃
	Typical	2550mAh	Reference only 0.49A(0.2C) discharge at 25℃
Nominal Voltage		3.6V	0.49A(0.2C) discharge
Discharge End Voltage		2.5V	
Charging Current (Std.)		1.24A(0.5C)	10～+45℃
		0.62A(0.25C)	0～+10℃
Charging Voltage		4.20±0.03V	
Charging Cut Current		49mA(1/50C)	
Continuous Discharge Current (Max.)		8.0A	0～+40℃
Internal Resistance		less than 40mΩ	AC impedance 1 kHz
Weight		less than 46.4g	
Operating Temperature	Charge	0～+45℃	
	Discharge	-20～+60℃	
Storage Conditions (Shipped Charge) SOC30%	Less than 1 month	-20～+50℃	Recoverable Capacity 80%
	Less than 3 months	-20～+40℃	
	Less than 1 year	-20～+20℃	

*1C=2470mAh

TENTATIVE



*With tube

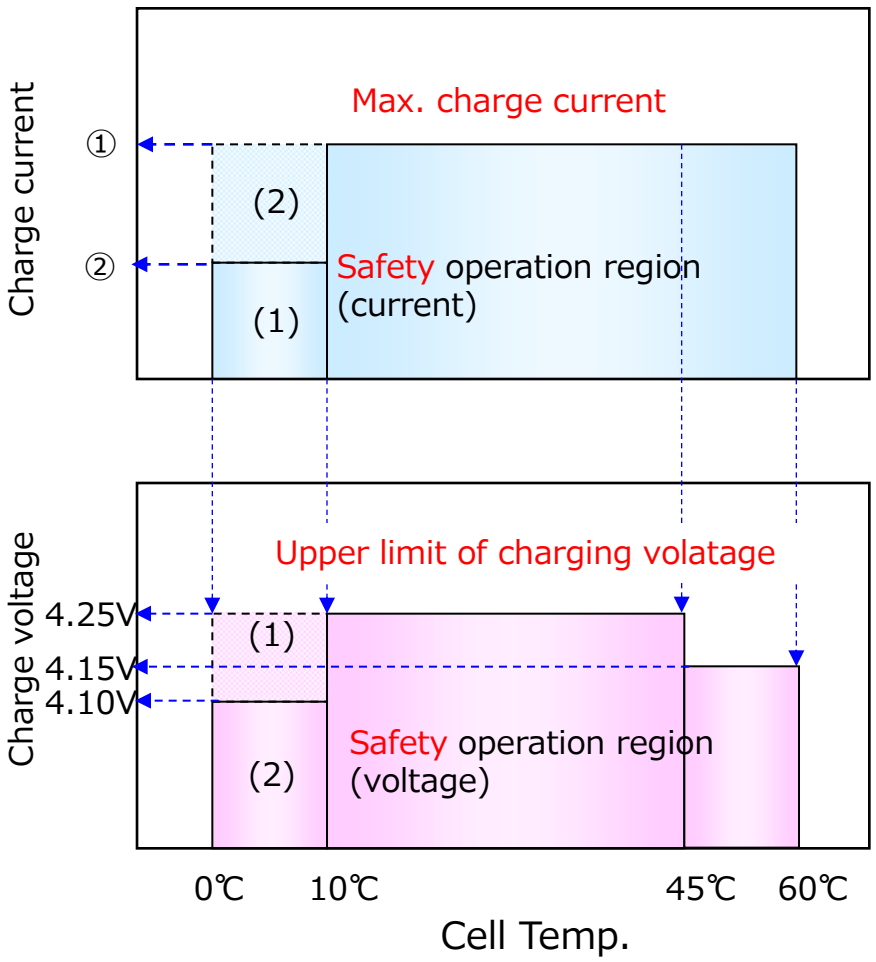
TENTATIVE

<For Performance>

Temperature		charging voltage	charging current
0~10℃	(1)	4.20V	② 620mA
	(2)	4.05V	① 1240mA
10~45℃		4.20V	① 1240mA
45~60℃		4.10V	① 1240mA

<For safety>

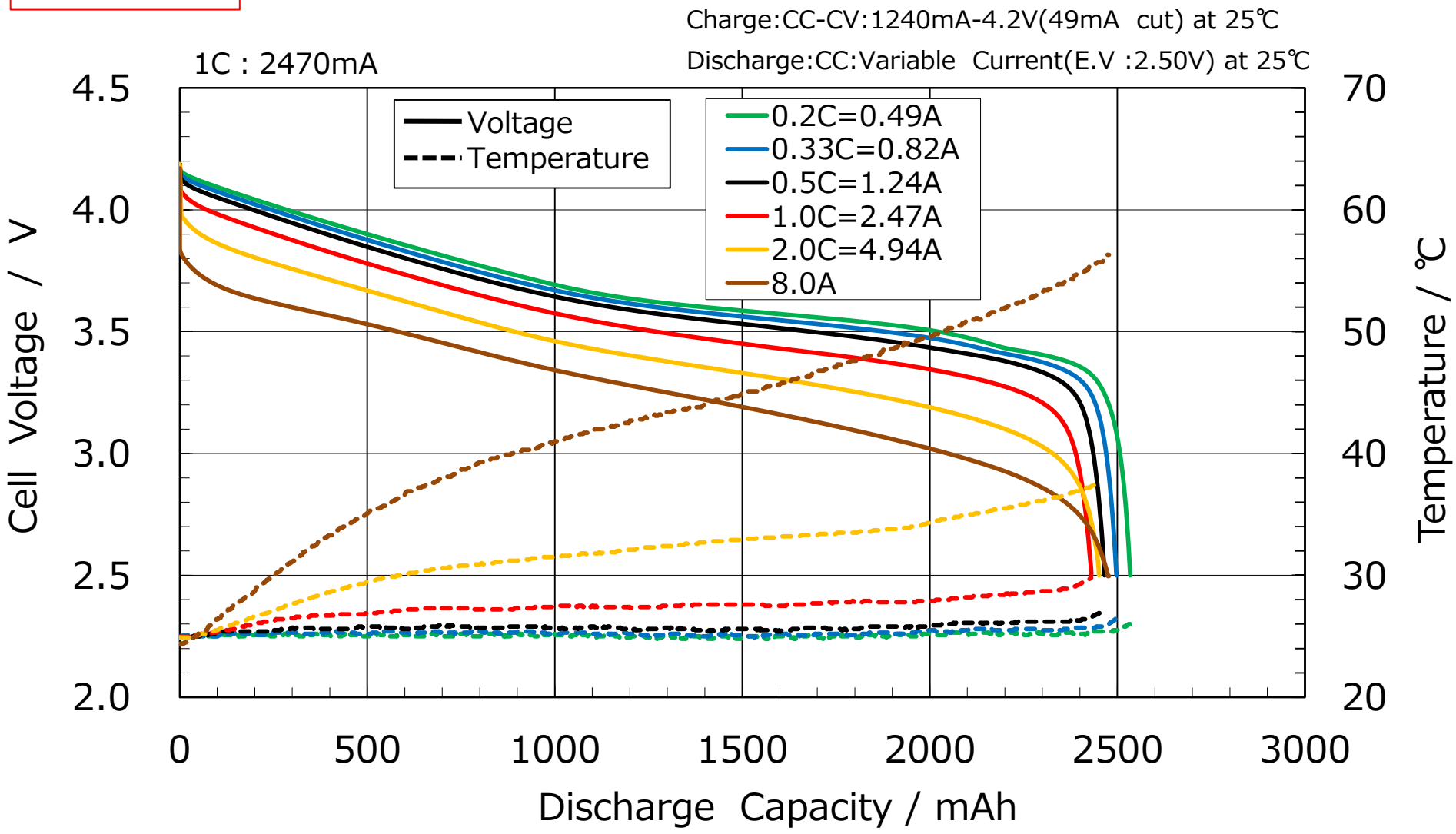
Temperature		Upper limit of charging voltage	Maximum charging current
0~10℃	(1)	4.25V	② 1240mA
	(2)	4.10V	① 2470mA
10~45℃		4.25V	① 2470mA
45~60℃		4.15V	① 2470mA



Panasonic

Discharge Characteristics

TENTATIVE

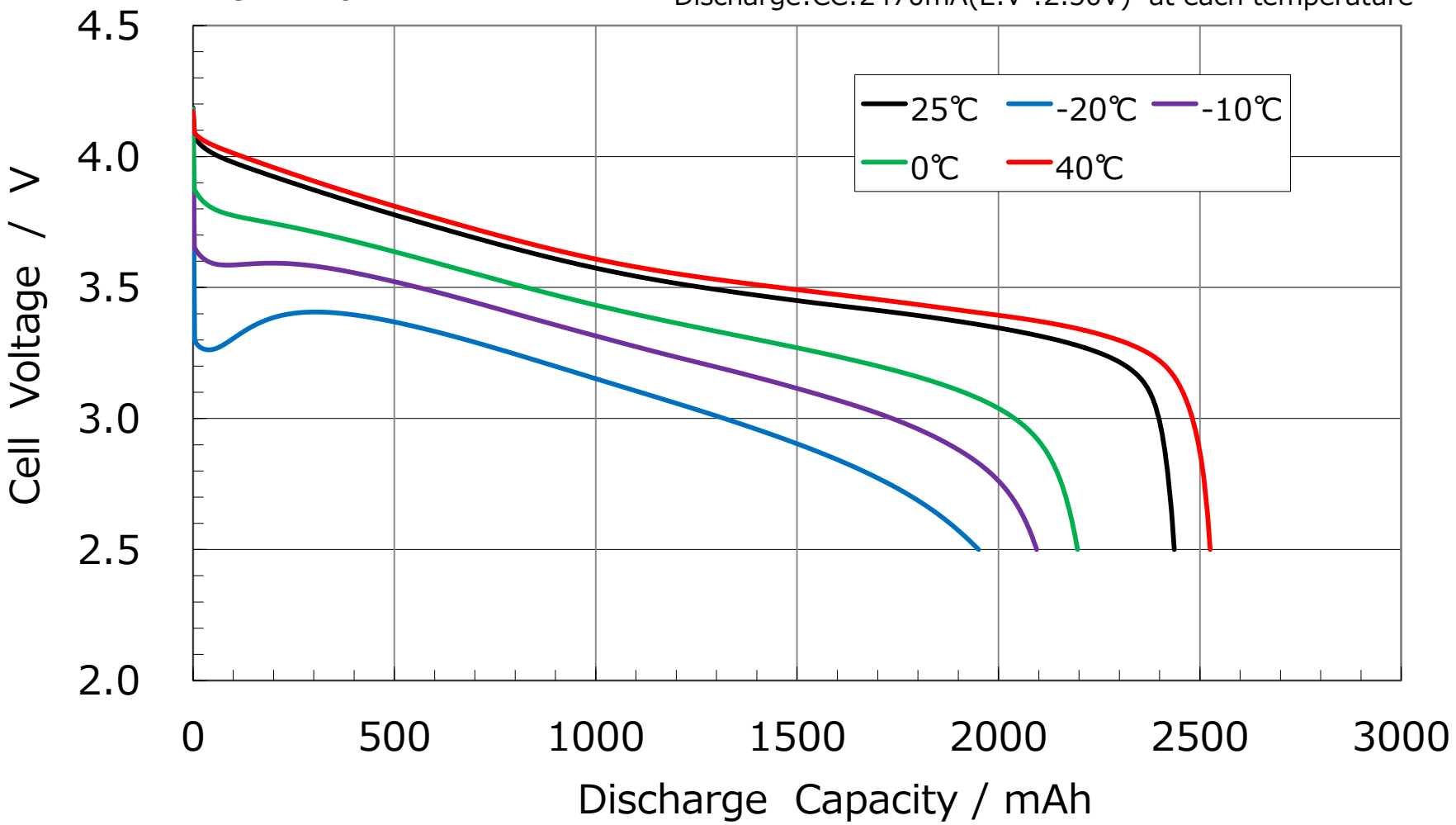


Panasonic

Discharge Temperature Characteristics

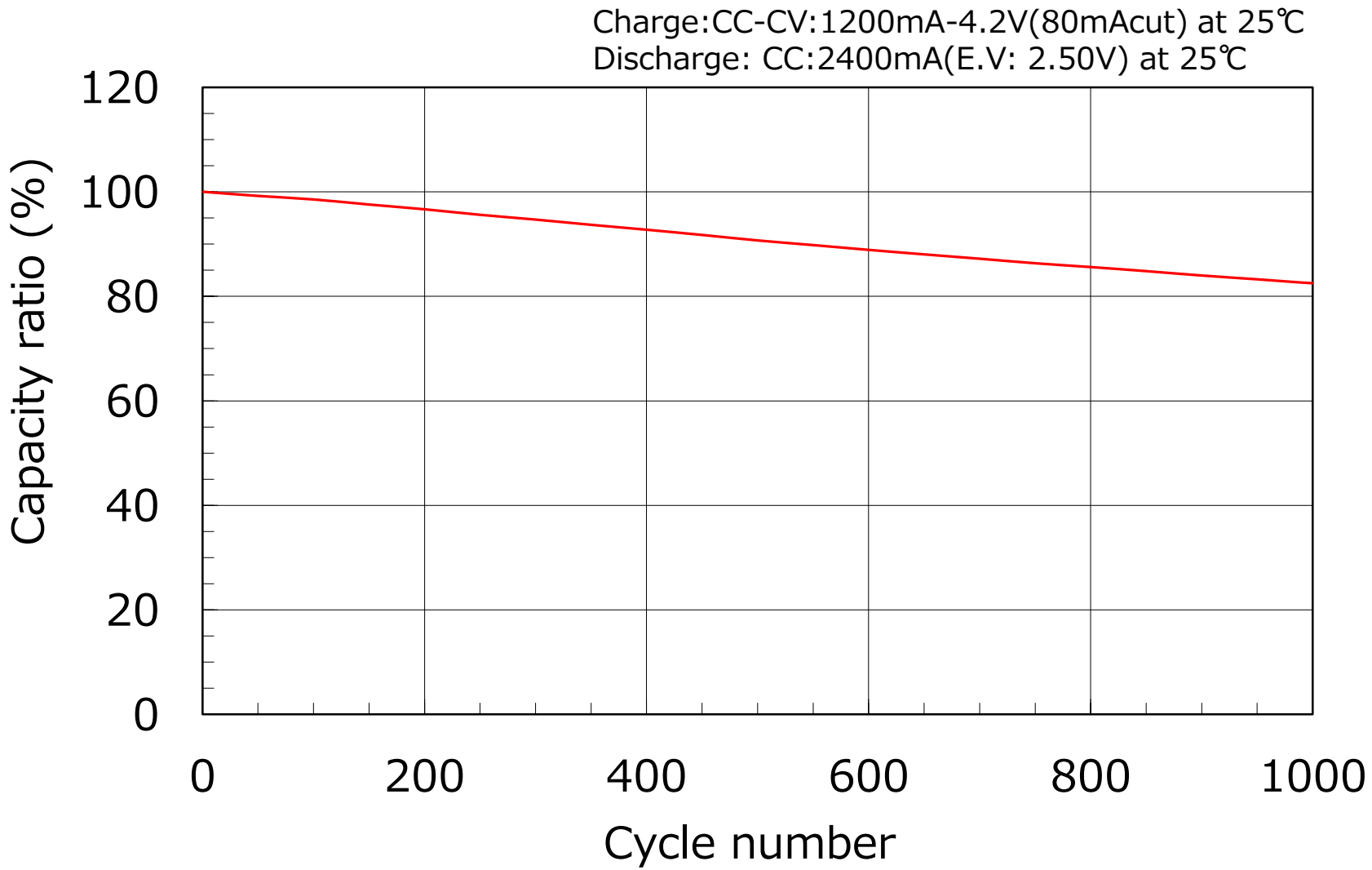
TENTATIVE

Charge:CC-CV:1240mA-4.2V(49mA cut) at 25℃
Discharge:CC:2470mA(E.V :2.50V) at each temperature



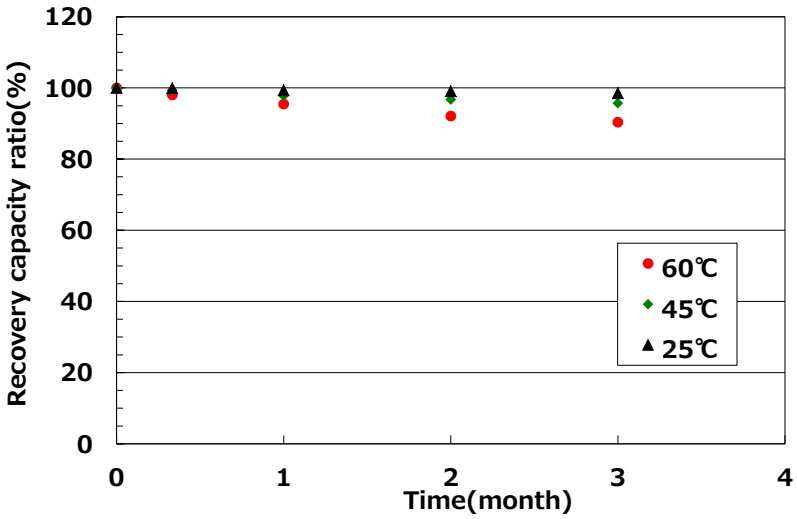
Panasonic

TENTATIVE

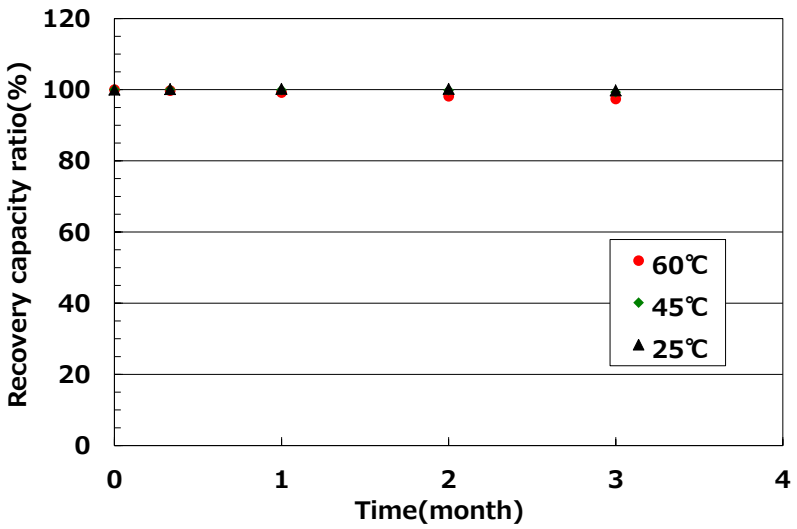


Storage Characteristics

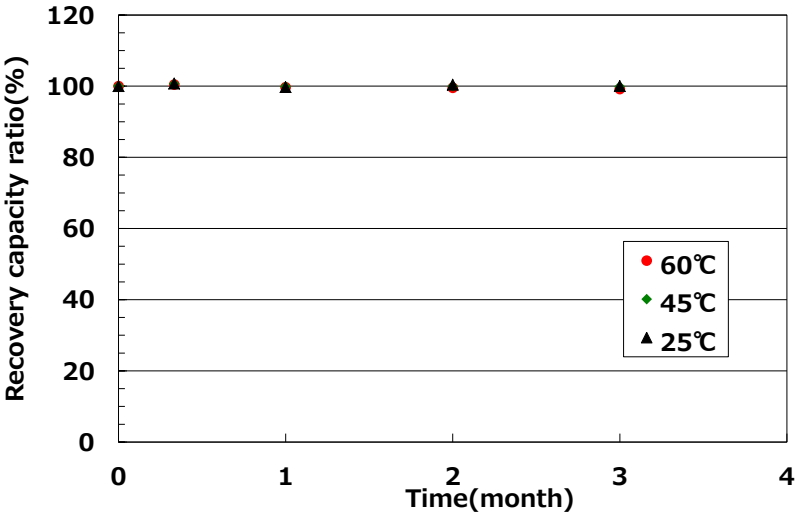
<SOC 100%>



<SOC 30%>



<SOC 10%>



<Test condition>
-Charge:CC-CV:1200mA to Each SOC at 25℃
-Storage: At each ambient temperature for each storage time
-Recovery capacity measurement:
Charge:CC-CV:1200mA-4.2V(80mAcut) at 25℃
Discharge: CC:494mA(E.V: 2.50V) at 25℃

TENTATIVE


Panasonic