

DISCOVER THE MOST ADVANCED AND EFFICIENT BATTERY TECHNOLOGY AVAILABLE TODAY



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AMITA TECHNOLOGIES, A BATTERY CELL MANUFACTURER

HIGH ENERGY & POWER DENSITY: The sophisticated combination of advanced battery technology and cutting-edge materials endows the Eagle series of battery cells with exceptional energy and power density. Experience prolonged operation and powerful bursts of energy, all within your control.

WIDE & SAFE VOLTAGE RANGE: Features a broad and secure operating voltage range, offering greater flexibility and compatibility for system design.

EXTENDED LIFESPAN: Even under high-power usage conditions, the Eagle series of battery cells demonstrate an outstanding lifespan. We meticulously consider superior performance, cost-effectiveness, and environmental responsibility in our design.

ROBUST RELIABILITY: Inheriting the stringent IATF 16949 automotive-grade quality control standards, Amita Technology places a strong emphasis on the reliability and safety of product design and manufacturing. Multiple safety features and fault protection mechanisms safeguard your usage experience.

Amita Technology is committed to providing leading lithium battery solutions through continuous innovation and technological advancement. For more information, please contact the Amita Sales Team.



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AMITA TECHNOLOGIES

PN070, 2.8~4.3V		
Capacity	Typical	7.1Ah
	Minimum	6.8Ah
Voltage	Nominal V	3.70V
	Charge	4.30V
	Discharge	2.80V
Energy	Wh	25.9Wh
Charge Current	Maximum	7A / 1C
Discharge Current	Maximum*	28A / 4C
	Peak	140A / 3 sec.
Internal Resistance	AC (1KHz)	$\leq 3 \text{ m}\Omega$
Cycle Life 1C/4C	90%SOH	> 700
Operating Temp.	Charge	0°C~55°C
	Discharge	-20°C~55°C
Energy Density	Volumetric	~ 485 Wh/l
	Gravimetric	~ 250 Wh/kg
Certification: CNS-15364, IEC-62133, UN38.3		

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CELL

PN070069098 7Ah | 3.7V | 25.9Wh
69mm x 98mm x 7.5mm | 105g

MODULE

U15007NSC041
7Ah | 14.8V (4S1P) | 105Wh
70.7mm x 193mm x 102mm | < 600g

PN070

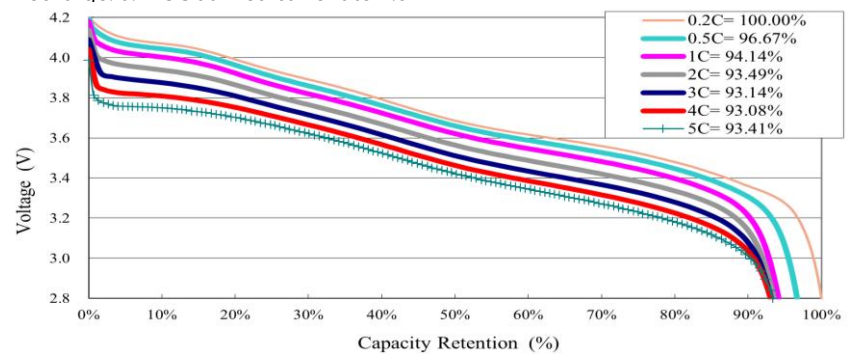


EAGLE POWER

High Power · Excellent Cycle Life

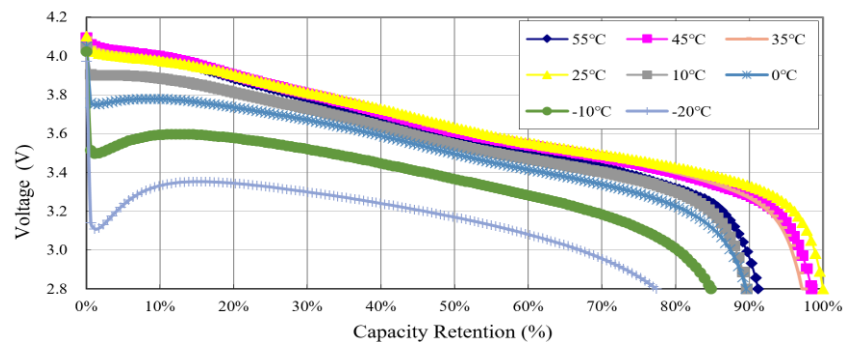
CELL/CONTINUOUS: 4C/28A (TEMP RISE < 20°C) | 3S ~20C

Condition: 25±2°C in the constant temp circulation oven
Charge: 0.2C to 4.2V and continue till the current < 0.05C
Discharge: 0.2~5C at fixed current to 2.8V



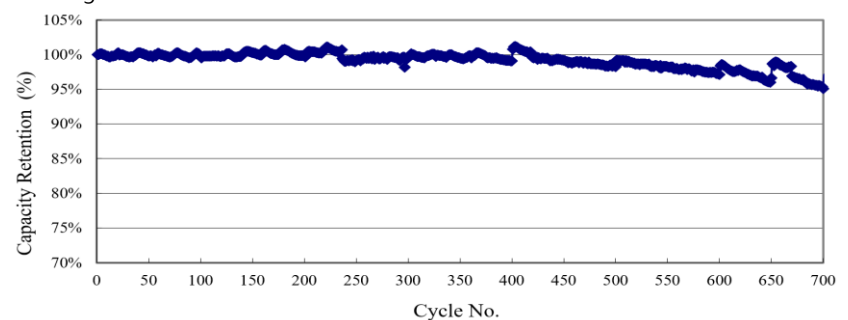
CELL 1C DISCHARGE @DIFF TEMP:-20°C RETENTION>77%

Condition: Discharge after 4 hrs in the constant temp circulation oven
Charge: 1C to 4.2V and continue till the current < 0.05C
Discharge: 4C till 2.8V under specified temp for 4 hrs, 1C at fixed current to 2.8V



CELL CYCLE LIFE: 1C/4C(28A) 700 CYCLES @ 90%+SOH

Condition: 25±5°C in the temperature-controlled room
Charge: 1C to 4.2V and continue till the current < 0.05C. Rest for 10 mins
Discharge: 4C to 2.8V



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PN090



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PN090, 2.8~4.3V		
Capacity	Typical	9.8Ah
	Minimum	9.5Ah
Voltage	Nominal V	3.70V
	Charge	4.30V
	Discharge	2.80V
Energy	Wh	36.26Wh
Charge Current	Maximum	9.5A / 1C
Discharge Current	Maximum*	36A / 4C
	Peak	200A / 3 sec.
Internal Resistance	AC (1KHz)	≤ 3 mΩ
Cycle Life 1C/4C	90%SOH	> 500
Operating Temp.	Charge	0°C~55°C
	Discharge	-20°C~55°C
Energy Density	Volumetric	~ 526 Wh/l
	Gravimetric	~ 273 Wh/kg
Certification: IEC-62133, UN38.3		

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CELL

PN090069099 9.8Ah | 3.7V | 36.26Wh

69mm x 99mm x 10.4mm | 137g

MODULE

U15010NSC041

9.5Ah | 14.8V (4S1P) | 140Wh

71mm x 50mm x 105mm | ~690g

U52020NSC142

19Ah | 51.8V (14S2P) | 984Wh

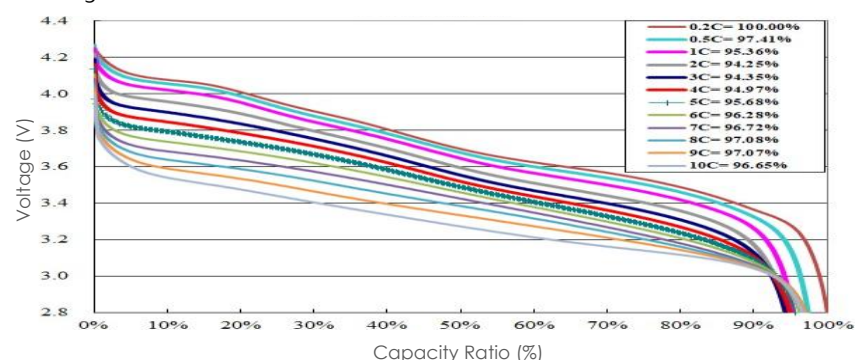
164mm x 141mm/W x 104mm | ~4.3kg

CELL/CONTINUOUS: 4C/36A (TEMP RISE < 20°C) | 3S ~20C

Condition: 25±2°C in the constant temp circulation oven

Charge: 0.2C to 4.2V and continue till the current < 0.05C

Discharge: 0.2~5C at fixed current to 2.8V

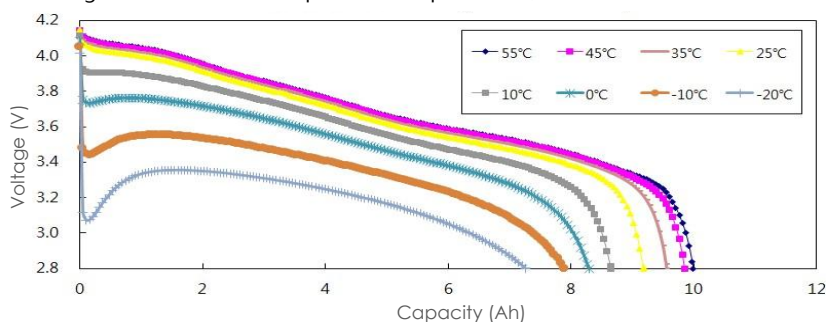


CELL 1C DISCHARGE @DIFF TEMP:-20°C RETENTION>76%

Condition: Discharge after 4 hrs in the constant temp circulation oven

Charge: 1C to 4.2V and continue till the current < 0.05C

Discharge: 4C till 2.8V under specified temp for 4 hrs, 1C at fixed current to 2.8V

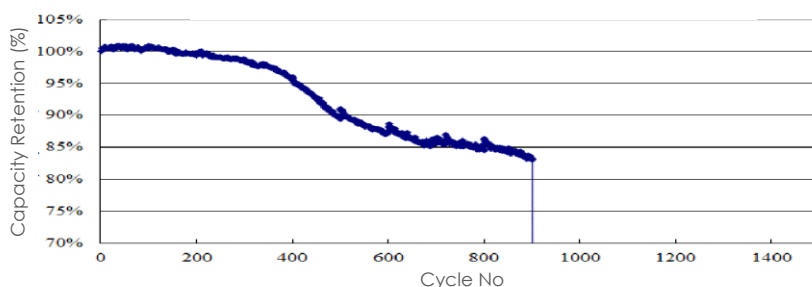


CELL CYCLE LIFE: 1C/4C(36A) 700 CYCLES @ 90%+SOH

Condition: 25±5°C in the temperature-controlled room

Charge: 1C to 4.2V and continue till the current < 0.05C. Rest for 10 mins

Discharge: 4C to 2.8V



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PN128, 2.8~4.2V		
Capacity	Typical	12.8Ah
	Minimum	12.5Ah
Voltage	Nominal V	3.70V
	Charge	4.20V
	Discharge	2.80V
Energy	Wh	47.4Wh
Charge Current	Maximum	12.5A / 1C
Discharge Current	Maximum*	50A / 4C
	Peak	180A / 3 sec.
Internal Resistance	AC (1KHz)	$\leq 3 \text{ m}\Omega$
Cycle Life 1C/4C	90%SOH	> 600
Operating Temp.	Charge	0°C~55°C
	Discharge	-20°C~55°C
Energy Density	Volumetric	~ 534 Wh/l
	Gravimetric	~ 263 Wh/kg
Certification: CNS-15364, IEC-62133, UN38.3		

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CELL

PN128069128 12.8Ah | 3.7V | 47.4Wh
69mm x 128mm x 10.7mm | 180g

MODULE

U15013NSC041
12Ah | 14.8V (4S1P) | 188Wh
70mm x 46mm x 133mm | < 900g

PN128

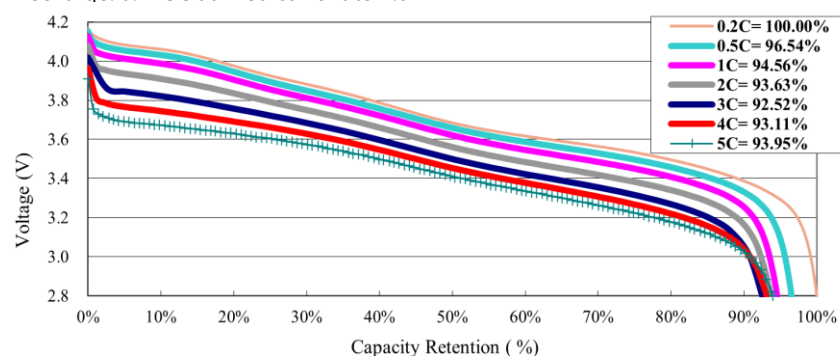


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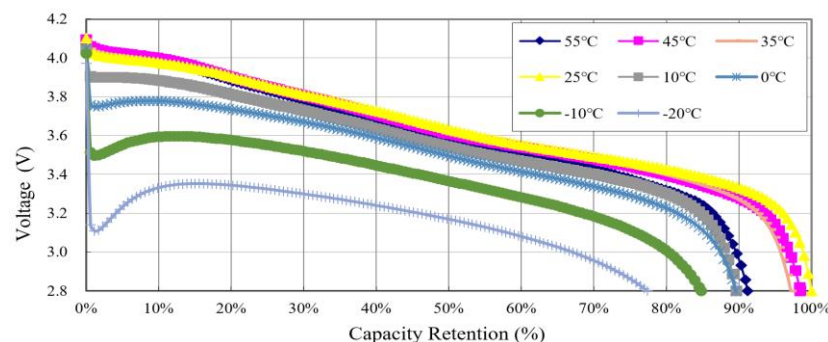
CELL/CONTINUOUS: 4C/50A (TEMP RISE < 20°C) | 3S ~20C

Condition: 25±2°C in the constant temp circulation oven
Charge: 0.2C to 4.2V and continue till the current < 0.05C
Discharge: 0.2~5C at fixed current to 2.8V



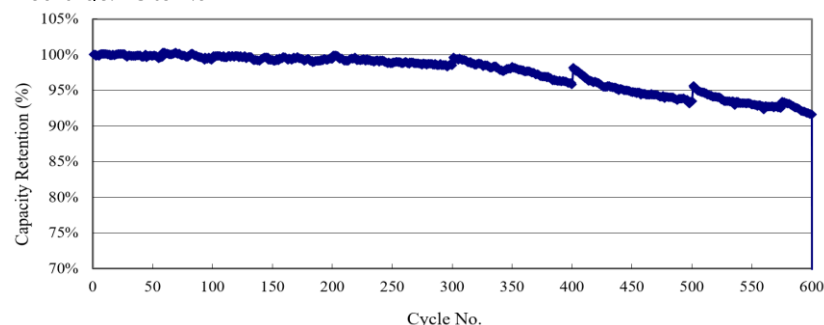
CELL 1C DISCHARGE @DIFF TEMP:-20°C RETENTION>77%

Condition: Discharge after 4 hrs in the constant temp circulation oven
Charge: 1C to 4.2V and continue till the current < 0.05C
Discharge: 4C till 2.8V under specified temp for 4 hrs. 1C at fixed current to 2.8V



CELL CYCLE LIFE: 1C/4C(50A) 600 CYCLES @ 90%+ SOH

Condition: 25±5°C in the temperature-controlled room
Charge: 1C to 4.2V and continue till the current < 0.05C. Rest for 10 mins
Discharge: 4C to 2.8V



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PN150, 2.8~4.3V		
Capacity	Typical	15.5Ah
	Minimum	15Ah
Voltage	Nominal V	3.70V
	Charge	4.30V
	Discharge	2.80V
Energy	Wh	55.5Wh
Charge Current	Maximum	30A / 2C
Discharge Current	Maximum*	60A / 4C
	Peak	300A / 3 sec.
Internal Resistance	AC (1KHz)	$\leq 3 \text{ m}\Omega$
Cycle Life 1C/4C	90%SOH	> 500
Operating Temp.	Charge	5°C~55°C
	Discharge	-20°C~55°C
Energy Density	Volumetric	~ 521 Wh/l
	Gravimetric	~ 252 Wh/kg
Certification: UN38.3		

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CELL

PN150110140 15Ah | 3.7V | 55.5Wh
110mm x 140mm x 7.0mm | ~220g

PN150



EAGLE POWER

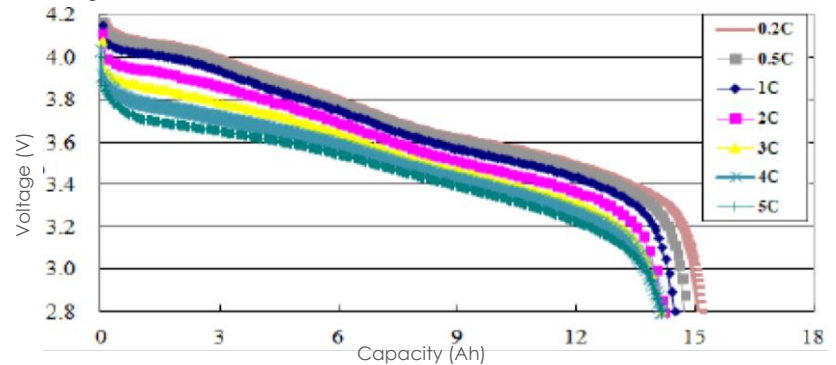
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CELL/CONTINUOUS: 4C/36A (TEMP RISE < 20°C) | 3S ~20C

Condition: 25±2°C in the constant temp circulation oven

Charge: 0.2C to 4.2V and continue till the current < 0.05C

Discharge: 0.2~5C at fixed current to 2.8V

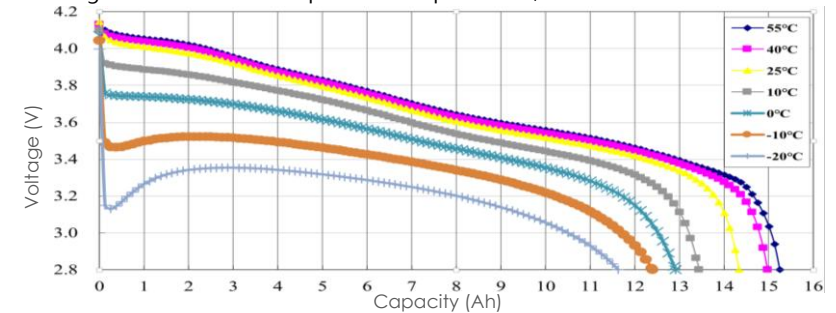


CELL 1C DISCHARGE @DIFF TEMP:-20°C RETENTION>80%

Condition: Discharge after 4 hrs in the constant temp circulation oven

Charge: 1C to 4.2V and continue till the current < 0.05C

Discharge: 4C till 2.8V under specified temp for 4 hrs, 1C at fixed current to 2.8V

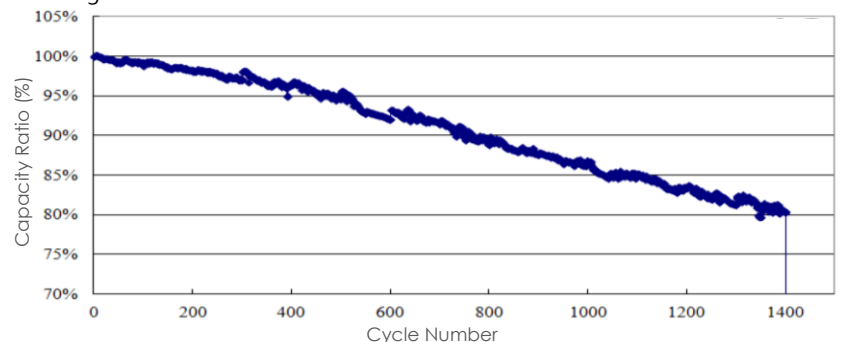


CELL CYCLE LIFE: 1C/1C(15A) 1400 CYCLES @ 80%+ SOH

Condition: 25±5°C in the temperature-controlled room

Charge: 1C to 4.2V and continue till the current < 0.05C. Rest for 10 mins

Discharge: 4C to 2.8V



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PN220, 2.8~4.2V		
Capacity	Typical	22.5Ah
	Minimum	22.0Ah
Voltage	Nominal V	3.70V
	Charge	4.20V
	Discharge	2.80V
Energy	Wh	83.25Wh
Charge Current	Maximum	22A / 1C
Discharge Current	Maximum*	66A / 3C
	Peak	440A / 3 sec.
Internal Resistance	AC (1KHz)	$\leq 1.0 \text{ m}\Omega$
	DC SOC~100%	$\leq 5.0 \text{ m}\Omega$
Cycle Life 1C/4C	90%SOH	> 500
Operating Temp.	Charge	0°C~55°C
	Discharge	-20°C~55°C
Energy Density	Volumetric	~ 540 Wh/l
	Gravimetric	~ 265 Wh/kg
Certification: IEC-62133, UN38.3, IS-16064		

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CELL

PN220110140 22.5Ah | 3.7V | 83.25Wh
110mm x 140mm x 10.5mm | 320g

MODULE

U44022NSC121

22Ah | 44.4V (12S1P) | 976Wh

224mm x 150.5mm x 67mm | < 4.4kg

PN220



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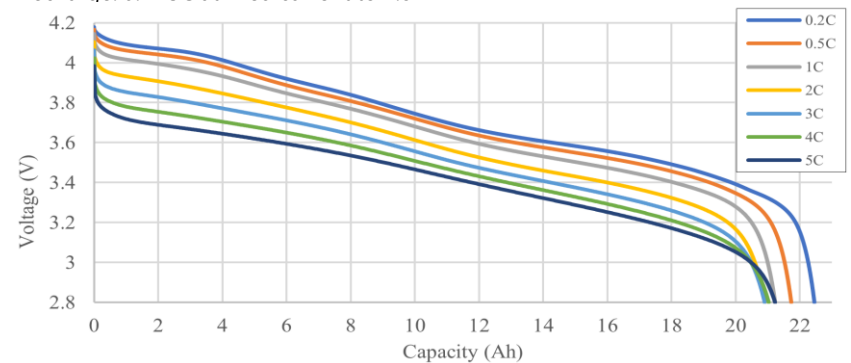
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CELL/CONTINUOUS: 4C/88A (TEMP RISE < 20°C) | 3S ~20C

Condition: 25±2°C in the constant temp circulation oven

Charge: 0.2C to 4.2V and continue till the current < 0.05C

Discharge: 0.2~5C at fixed current to 2.8V

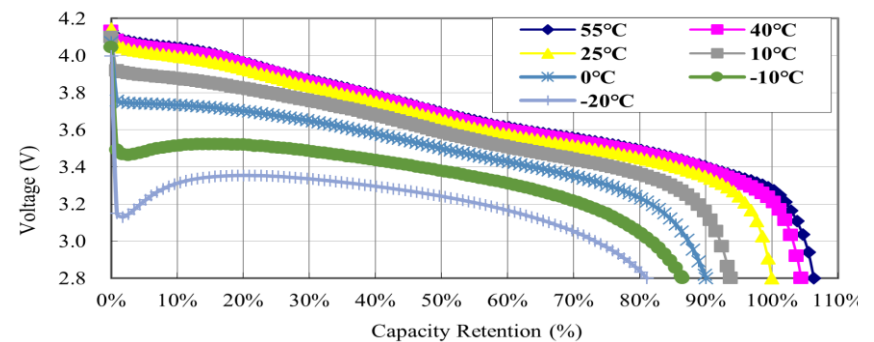


CELL 1C DISCHARGE @DIFF TEMP:-20°C RETENTION>80%

Condition: Discharge after 4 hrs in the constant temp circulation oven

Charge: 1C to 4.2V and continue till the current < 0.05C

Discharge: 4C till 2.8V under specified temp for 4 hrs, 1C at fixed current to 2.8V

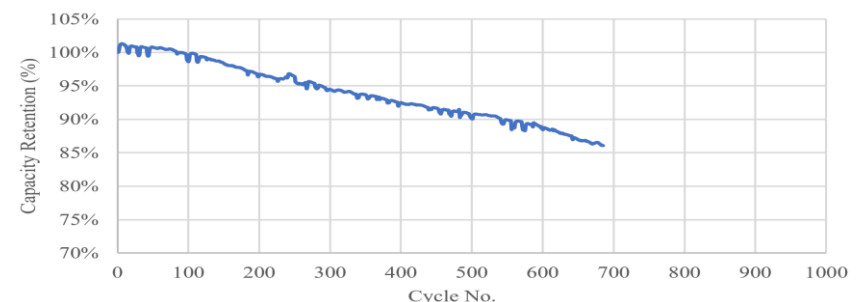


CELL CYCLE LIFE: 1C/4C(88A) 500 CYCLES @ 90%+SOH

Condition: 25±5°C in the temperature-controlled room

Charge: 1C to 4.2V and continue till the current < 0.05C. Rest for 10 mins

Discharge: 4C to 2.8V



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