



-EVE Energy CO., LTD Confidential and Proprietary-

Model	INR18650/30PL	Spec. No.	PBRI-INR18650/30PL-D06-01	Version No.	A
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PRODUCT SPECIFICATION

Lithium-ion rechargeable cell

Model: INR18650/30PL

Designed	RD Checked	QC Checked	Sales Checked	Approved

Customer signature
Company name:
Approved by:
Date:

June, 2025

EVE Energy Co., Ltd.

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Customer Request

If the customer has any particular application or operating conditions different from those described in this document, please list below and communicate with us in advance.

No.	Customer Special Requirements	Specifications
1		
2		
3		
4		
5		

Customer Code:

Signature:

Date:



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Revision history

Revision No.	Date	Page	Item	Description	Author
A	2025-06-16	/	/	First Edition	Monica

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1. Scope

This product specification has been prepared to specify the rechargeable lithium-ion cell to be supplied to customer by EVE Energy CO., LTD.

2. Description and Model

2.1 Description	Lithium-ion rechargeable cell
2.2 Model name	INR18650/30PL

3. Nominal Specifications

Item	Specification	
3.1 Standard Discharge Capacity	Minimum 3000mAh Charge: 1.5A(0.5C), 4.20V, CCCV 0.1A cut-off Discharge: 0.6A(0.2C), 2.50V cut-off *1C=3.0A	
3.2 Nominal Voltage	3.65V	
3.3 Standard Charge	1.5A(0.5C), 4.20±0.05V, CCCV 0.1A cut-off	
3.4 Maximum Charge	9.0A(3.0C), 4.20±0.05V, CCCV 0.1A cut-off	
3.5 Standard Discharge	0.6A(0.2C), 2.50V cut-off	
3.6 Maximum Discharge	60A(20C), 2.50V With Temperature Cut-off	T _{Recommended} : 75°C
		T _{Max} : 80°C
3.7 Charge/Discharge Voltage Range	4.20~2.50V	
3.8 Cell Weight	45.0±2.0g	
3.9 Cell Dimension	Height: 65.15±0.10mm Diameter: 18.35±0.10mm	
3.10 Operation Temperature (Cell Surface Temperature)	Ambient Temperature: Charge: 0 to 45°C Discharge: -20 to 60°C	
	Charge Temperature: 0 to 60°C (recommended recharge release <45°C) Discharge Temperature: -20 to 80°C (recommended re-discharge release <60°C)	

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3.11 Storage Temperature (At Shipping SOC)		1 year 3 months 1 month		-20~25°C -20~45°C -20~60°C	

Remark: The Recovery capacity is more than 90% of standard discharge capacity (=3000mAh) after storage at the condition of 3.11.

4. Outline Dimensions

See the attachment (Fig. 1).

5. Appearance

There shall be no such defects as rust, discoloration, leakage which may adversely affect commercial value of the cell.

6. Standard Test Condition

6.1. Environment Condition

Unless otherwise specified, all tests stated in this specification are conducted at temperature $25 \pm 2^\circ\text{C}$ and humidity under 65% RH.

6.2. Measuring Equipment

(1) Amp-meter and volt-meter

The amp-meter and volt-meter should have an accuracy of the grade 0.5mA and 0.5mV or higher.

(2) Slide caliper

The slide caliper should have 0.01mm scale.

(3) Impedance meter

The impedance meter with AC 1 kHz should be used.

7. Characteristics

7.1. Standard Charge

Standard Charge means charging the cell CCCV with charge current 1.5A (0.5C), constant voltage 4.20V and 0.1A cut-off in CV mode at 25°C for capacity.

7.2. Maximum Charge

Maximum Charge means charging the cell CCCV with charge current 9.0A (3.0C), constant voltage 4.20V and 0.1A cut-off in CV mode at 25°C .

7.3. Standard Discharge Capacity

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The Standard Discharge Capacity is measured with discharge current of 0.6A (0.2C) and 2.50V cut-off at 25°C after the standard charge.

Standard Discharge Capacity $\geq 3000\text{mAh}$

(Referring IEC61960 standard)

7.4. Initial Internal Impedance

Initial Internal Impedance is measured at AC 1kHz at shipping SOC.

Initial Internal Impedance $\leq 6\text{m}\Omega$

7.5. Discharge Rate Capabilities

Discharge capacity is measured with the various currents in the following table and 2.50V cut-off after the standard charge at 25°C.

Item	Discharge Condition			
Current	0.6A	10A	20A	30A
Rate	0.2C	3.3C	6.6C	10.0C
Relative Capacity	$\geq 100\%$	100%	$\geq 98\%$	$\geq 95\%$

Note: Relative capacity is divided the 10A discharge capacity at 25°C.

7.6. Temperature Dependence of Discharge Capacity

Capacity comparison at each temperature, measured after 3 hours storage at the test environment with discharge constant current 10A (3.3C) and 2.50V cut-off after the standard charge at 25°C.

Item	Discharge Temperature				
Temperature	-20°C	-10°C	0°C	25°C	60°C
Storage Time	3h	3h	3h	3h	3h
Relative Capacity	$\geq 40\%$	$\geq 60\%$	$\geq 80\%$	100%	$\geq 90\%$

Note: Relative capacity is divided by the 10A discharge capacity at 25°C.

7.7. Cycle Life

Charge: 6.0A (2C) to 4.2V, CCCV 0.1A cut-off.

Discharge: 30A (10.0C) to 2.50V or 75°C cut-off.

Rest time: 10min after charge and 30min after discharge.

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Capacity after 500 cycles.

Capacity $\geq 60\%C_i$

Note: C_i is the first discharge capacity of cycle life test at $25\pm 2^\circ\text{C}$.

7.8. Storage Characteristics

Recovery Capacity: The capacity of standard discharge of three times cycles after fully standard charged storage at condition as follows.

After storage for 30days at 60°C .

Recovery Capacity $\geq 2700\text{mAh}$ (90% of Standard Discharge Capacity(=3000mAh))

7.9. Status of the Cell as of Ex-factory

The cell should be shipped in 3.550V to 3.600V charging voltage range.

8. Mechanical Characteristics

8.1. Free Fall Test

Test method: Each fully charged cell is dropped three times from a height of 1.0m onto a concrete floor. The cells are dropped so as to obtain impacts in random orientations. After the test, the cells shall be put on rest for 1h and then a visual inspection shall be performed.

Criteria: No fire, no explosion.

Free fall test is according to the IEC62133 standard.

8.2. Vibration Test

Test method: For X and Y axis with cylindrical cell 7Hz→200Hz→7Hz for 15min, repetition 12 times totally 3 hours, the acceleration 1g during 7 to 18Hz, then amplitude 1.6mm and maximum 8g up to 200Hz.

Criteria: No fire, no explosion, no leakage, with less than 10% of OCV drop.

Vibration test is according to the UN38.3 standard.

9. Safety

9.1. Overcharge Test

Test method: Fully standard discharged cell is charged with 4.6V and 9.0A (3C) for 7h.

Criteria: No fire, no explosion.

Overcharge test is according to the UL1642 standard.

9.2. External Short-circuit Test

Test method: Fully standard charged cell is to be short-circuited by connecting the positive and negative terminals of the cell with a circuit load having are resistance load of $80\pm 20\text{m}\Omega$ at $55\pm 5^\circ\text{C}$. The

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cell remains on test for 24h or until the surface temperature declines by 20% of the maximum temperature rise, whichever is the sooner.

Criteria: No fire, no explosion.

External short-circuit test is according to the IEC62133 standard.

9.3. Forced Discharge Test

Test method: A discharged cell is subjected to a reverse charge at 3.0A (1C) for 90 min.

Criteria: No fire, no explosion.

Forced discharge test is according to the IEC62133 standard.

9.4. Heating Test

Test method: To heat up the standard charged cell at heating rate 5°C per minute up to 130°C and keep the cell in oven for 10 minutes.

Criteria: No fire, no explosion.

Heating test is according to the UL1642 standard.

9.5. Low Pressure Test

Test method: Fully standard charged cell is to be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature.

Criteria: No fire, no explosion and no leakage with less than 10% of OCV drop.

Low pressure test is according to the UN38.3 standards.

10. Warranty

The warranty period of cells are made according to business contract. However, even though the problem occurs within this period, EVE won't replace a new cell for free as long as the problem is not due to the failure of EVE manufacturing process or is due to customer's abuse or misuse.

EVE will not be responsible for trouble occurred by handling outside of the precautions in instructions.

EVE will not be responsible for trouble occurred by matching electric circuit, cell pack and charger.

EVE will be exempt from warrantee any defect cells during assembling after acceptance.

11. Precautions and Safety Instructions

Lithium-ion rechargeable cells 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.

Note 1. Customer shall contact EVE in advance if it intends to use the cell in applications or operating conditions other than those described in this document.

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Note 2. EVE will take no responsibility for any accident that occurs when the cell is used under conditions other than those described in this document.

Note 3. For the sake of safety assurance, please discuss the equipment design, its system and protection circuit of Lithium-ion cell with EVE in advance, and consult about the high rate current, maximum charge and special application in the same way.

12. Guide for the Use of Lithium-ion Cells

12.1. General

This chapter has been prepared to describe the appropriate cautions and prohibitions, which the customer should take or employ when the customer uses and handles the lithium ion cell to be manufactured and supplied by EVE Energy CO., LTD., in order to obtain optimal performance and safety.

12.2. Charging

12.2.1. Charging current

Charging current shall be less than maximum charge current specified in the specification.

12.2.2. Charging voltage

Charging shall be done by voltage less than that specified in the specification.

12.2.3. Charging temperature

The cell shall be charged within a range of specified temperatures in the specification.

12.2.4. Reverse charging

The cell shall be connected, confirming that its poles are correctly aligned. Inverse charging shall be strictly prohibited. If the cell is connected improperly, it may be damaged.

12.3. Discharging

12.3.1. Discharging current

The cell shall be discharged continuously at less than maximum discharging current specified in the specification. In case of the higher discharging current should be set, it shall be discussed with EVE.

12.3.2. Discharging temperature

The cell shall be discharged within a range of temperatures specified in the specification. Otherwise, it may cause loss of performance characteristics.

12.3.3. Over-discharging

The system should equip with a device to prevent further discharging exceeding discharging cut-off voltage specified in the specification.

Over-discharging may cause loss of performance characteristics of cell.

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Over-discharging may occur by self-discharging if the cell is left for a very long time without any use.

The charger should equip with a device to detect voltage of cell box and to determine recharging procedures.

12.4. Storage

12.4.1. Storage conditions

The cell should be stored within a range of temperatures specified in the specification. Otherwise, it may cause loss of performance characteristics, leakage and/or rust.

12.4.2. Long term storage

The cell should be used within a short period after charging because long-term storage may cause loss of capacity by self-discharging. If long-term storage is necessary, the cell should be stored at lower voltage within a range specified in the specification, because storage with higher voltage may cause more loss of performance characteristics.

12.5. Cycle Life

12.5.1. The cell can be charged & discharged repeatedly up to times with a certain level of capacity specified in specification.

12.5.2. Cycle life may be determined by conditions of charging, discharging, operating temperature and/or storage.

12.6. Design of System

12.6.1. Connection between the cell and the battery

The cell should not be soldered directly with other cells. Namely, the cell should be welded with leads on its terminal and then be soldered with wire or leads to solder. Otherwise, it may cause damage of component, such as separator and insulator, by heat generation.

12.6.2. Positioning the battery in the system

The battery should be positioned as possible as far from heat sources and high temperature components. Otherwise, it may cause loss of characteristics. The recommended spacing between the cells is more than 1mm.

12.6.3. Mechanical shock protection of the battery

The battery should be equipped with appropriate shock absorbers in the pack in order to minimize shock, which can damage the cells. Otherwise, it may cause shape distortion, leakage, heat generation and/or rupture and/or open circuit.

12.6.4. Short-circuit protection of the cell

The cell equips with an insulating sleeve to protect short-circuit which may occur during transportation,

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battery assembly and/or system operation. If the cell sleeve is damaged by some cause such as outside impact, it may cause short-circuit with some wiring inside the battery.

12.6.5. Connection between the battery and charger/system

The battery should be designed to be connected only to the specified charger and system. A reverse connection of the battery, even in the specified system, should be avoided by employing special battery design such as a special terminal.

12.6.6. Pack design

The current consumption of the battery pack should be under 10uA at sleep mode. The system should be equipped with a device to monitor each voltage of cell block to avoid cell imbalance which can cause damage to the cells.

The battery pack or system should have warning system such as over temperature, over voltage, over current, and so on.

12.7. Battery Pack Assembly

12.7.1. Prohibition of usage of damaged cell

The cell should be inspected visually before battery assembly.

The cell should not be used if sleeve-damage, can-distortion and/or electrolyte-smell is detected.

12.7.2. Terminals handling

Excessive force on the negative terminal should be avoided when external strip terminal is welded.

12.7.3. Transportation

If the cell is necessary to be transported to such as the battery manufacturer, careful precautions should be taken to avoid damage of cell.

12.8. Others

12.8.1. Disassembly

The cell should not be dismantled from the battery pack.

Internal short-circuit caused by disassembly may lead to heat generation and/or venting.

When the electrolyte with fresh water and seek medical advice.

12.8.2. Short-circuiting

Short-circuit results in very high current which leads to heat generation.

An appropriate circuitry should be employed to protect accidental short-circuiting.

12.8.3. Incineration

Incinerating and disposing of the cell in fire are strictly prohibited, because it may cause rupture and explosion.

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12.8.4. Immersion

Soaking the cell in water is strictly prohibited, because it may cause corrosion and leakage of components to be damaged to functions.

12.8.5. Mixing use

Different types of cell, or same types but different cell manufacturer shall not be used, which may lead to cell imbalance, cell rupture or damage to system due to the different characteristics of cell.

12.8.6. Battery exchange

Although the cell contains no environmentally hazardous component, such as lead or cadmium, the battery shall be disposed according to the local regulations when it is disposed.

The cell should be disposed with a discharged state to avoid heat generation by an inadvertent short-circuit.

12.8.7. Temperature measurement

The temperature monitoring system (K-type thermocouple) is recommended to be placed in the middle of the cell (30mm up from the bottom of the cell), and the accuracy of the temperature monitoring system should be within $\pm 2^{\circ}\text{C}$.

12.8.8. Caution

The battery used in this device may present a risk of fire or chemical burn if mistreated.

Do not disassemble, expose to heat above 100°C or incinerate it.

Do not expose the cell to extreme heat or flame.

Do not short circuit, over-charge or over-discharge the cell.

Do not subject the cell to strong mechanical shocks.

Do not immerse the cell in water or sea water, or get it wet.

Do not reverse the polarity of the cell for any reason.

Do not disassemble or modify the cell.

Do not handle or store with metallic like necklaces, coins or hairpins, etc.

Do not use the cell with conspicuous damage or deformation.

Do not connect cell to the plug socket or car-cigarette-plug.

Do not make the direct soldering onto a cell.

Do not touch a leaked cell directly.

Do not use Lithium-ion cell in mixture.

Do not use or leave the cell under the blazing sun (or in heated car by sunshine).

Keep cell away from children.



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Do not drive a nail into the cell, strike it by hammer or tread it.

Replace battery with those of EVE only.

13. Others

13.1. Storage for a Long Time

If the cell or pack is kept for a long time (3 months or more), it is strongly recommended that the cell is performed one cycle, the voltage of the cell is recommended from 3.50V to 3.80V, the environment should be low-temperature (normally 0~25°C), dry and no corrosive gas.

13.2. Others

Any other matters not covered under this specification shall be separately negotiated and confirmed by both parties.

14. Consultation

Address: EVE Energy Co., Ltd.-EVE Industrial Park on No.38, Huifeng 7th Road, Zhongkai Hi-Tech Zone, Huizhou.

Tel No.: 86-752-2630809

Fax No.: 86-752-2606033

Website: [Http://www.evebattery.com.cn](http://www.evebattery.com.cn)

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Attachment:

Fig 1:

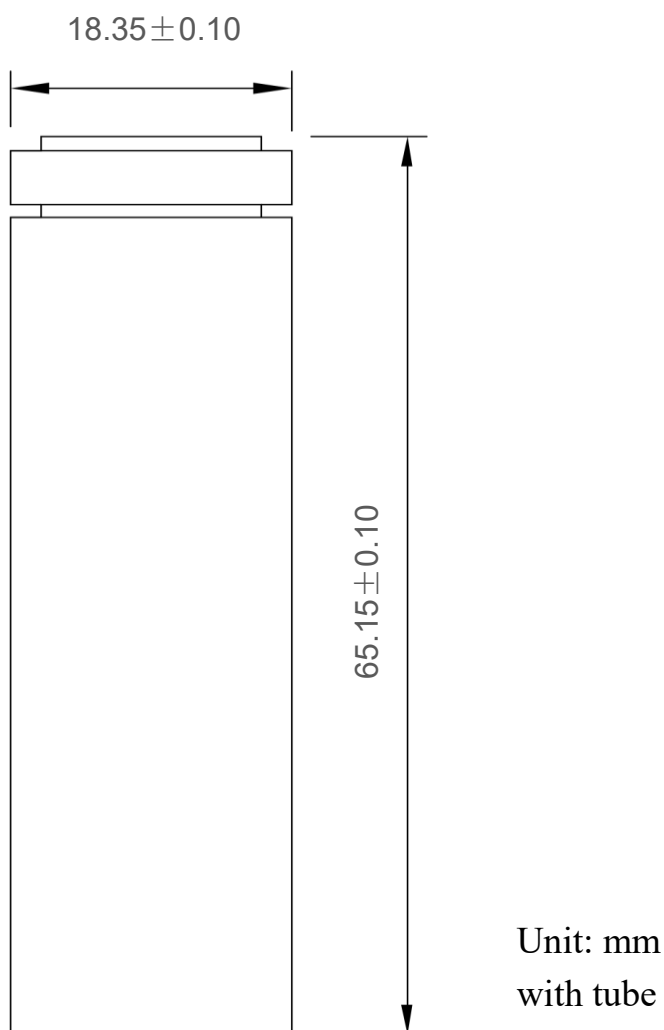
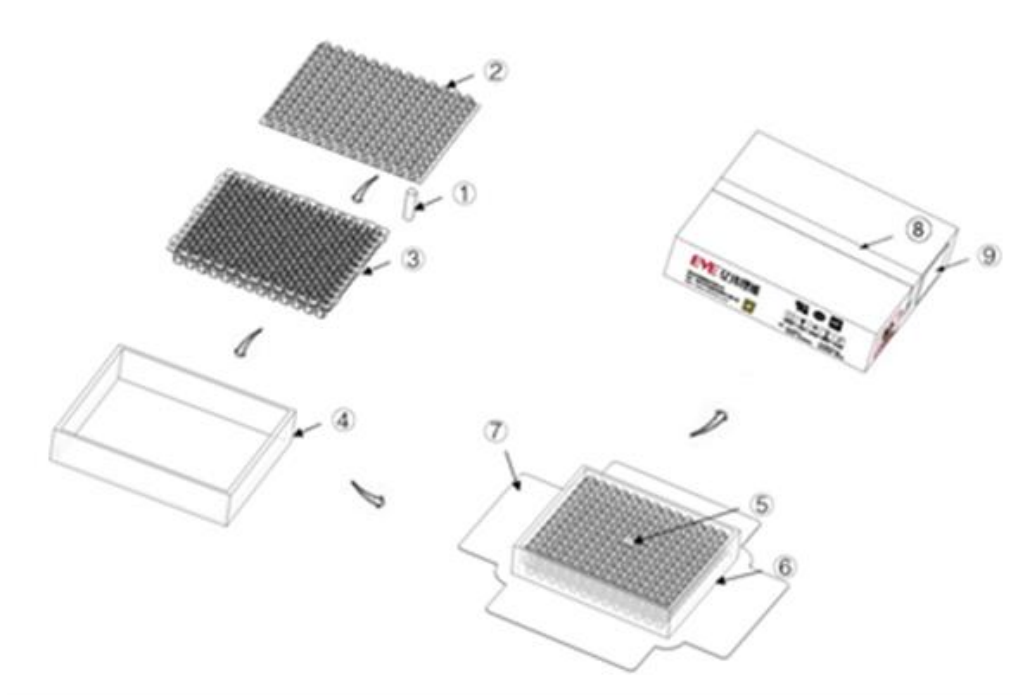


Fig. 1. Outline Dimensions of INR18650/30PL

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Attachment:

Fig 2:



NO.	Part Name	Material	Q'Ty
1	Cell	INR18650/30PL	156 pcs/box
2	Blister upper cover	PP	1 pcs/box
3	Blister lower cover	PP	1 pcs/box
4	Inner box	K3K Single Wall	1 pcs/box
5	Silica Gel	Silica Gel	1 pcs/box
6	PE Bag	PE	1 pcs/box
7	Outer box	H=H Double Wall	1 pcs/box
8	Tape	PE	0.01 rol/box
9	Label	Art Paper	1 pcs/box

Fig. 2. Package drawing

STIHL	Stihl Confirmed: Date:
Appendix Specification EVE INR18650/30PL Lithium Battery	EVE Confirmed: Date:

NO.	Item	Test Conditions	Specification	Remark
1	IEC-Capacity	Charge: 6A, 4.22V, CCCV 400/200/130mA cut-off Discharge: 0.6A(0.2C) CC, 2.50V DC cut-off Ambient temperature: 20±3°C	≥3000mAh	
2	Initial internal impedance	At: 20°C±3K, 1kHz, 30%SOC	≤TBDmΩ	
3	DCIR@50%SOC	At: 20±3°C, 3C/30sec; U1@0sec and U2@30sec; I1=3C; DCIR=(U1-U2)/I1	≤TBDmΩ	
4		Continuous charge current	14.5A	
5		Maximum discharge current	56A	
6		Continuous discharge current	40A	
7		Maximum discharge power	170W discharge for 10s	
8		Continuous discharge power	130W	
9		Self-discharge	BOL, 100%, 80%, 30%, 0% SOC(≤2.5V), storage 1year at 20°C	3 μ A
10		Ambient temperature range	charge	-5 to 45°C
11			discharge	-20 to 60°C
12	Cell surface temperature range	Charge: -10 to 70°C	Recommend: -10 to 60°C	
13		Re-charge release: -10°C, ≤55°C	-10°C, ≤55°C	
14		Discharge: -20 to 80°C	Discharge: -20 to 80°C	
15		Re-discharge release: -20°C, ≤70°C	-20°C, ≤70°C	
16	Discharge performance 120W CP	Charge: 6A, 4.22V, CCCV 0.13A cut-off Discharge: 120W CP, 2.50V cut-off Ambient temperature: -10±3°C	voltage > 3.0 V ; Discharge time > 12s	
17	Discharge performance 130W CP	At 20±3°C, 6A CC charge to 4.22V then CV to 130mA cut off. Rest for 20min and temperature lower than 23°C.	130W CP discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 23°C.	
18	Discharge performance 170W Profile		(170W/10s,0W/5s)*9 times, 0W/60s,discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 23°C.	> 94% of IEC-capacity
19	Cycle life 6A/130W	At 20±3°C, 6A CC charge to 4.22V then CV to 130mA cut off. Rest for 20min and temperature lower than 23°C.	130W CP discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 40°C.	>80% retention capacity@400th
20	Cycle life 6A/170W Profile		(170W/10s,0W/5s)*9 times, 0W/60s,discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 40°C.	>60% retention capacity @600th Retention capacity=IEC capacity/3Ah
21	Cycle life 14.5A/130W	At 20±3°C, 14.5A CC charge to 4.22V then CV to 130mA cut off. Rest for 20min and temperature lower than 23°C.	130W CP discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 55°C.	>80% retention capacity @320th
22	Cycle life 14.5A/170W Profile		(170W/10s,0W/5s)*9 times, 0W/60s,discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 55°C.	>60% retention capacity @480th Retention capacity=IEC capacity/3Ah
23	Reserve (Standby) capacity, BOL	Charge: 6A, 4.22V, CCCV 0.13A cut-off	≥150mAh	
24	Reserve (Standby) capacity, EOL (60% SOH)	Discharge: 0.6A(0.2C) CC, 2.50V cut-off Discharge : 0.003A(1/1000C) CC, 1.50V cut off Ambient temperature: 20±3°C	≥110mAh	
25	100%SOC for 730 days @23°C and 65% r.H.		Recovery capacity > 85% of rated capacity, no corrosion, and cell dimensions unchanged	TBC
26	Delivery SOC for 730 days @23°C and 65% r.H.		Recovery capacity > 95% of rated capacity, OCV≥OCV of fresh cell at 15%SOC, no corrosion, and cell dimensions unchanged	TBC
27	Delivery SOC for 90 days @60°C and 80% r.H.		Recovery capacity > 95% of rated capacity, OCV≥OCV of fresh cell at	TBC

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				15%SOC, no corrosion, and cell dimensions unchanged	
28		Delivery SOC for 90 days @-20°C and 80% r.H.		Recovery capacity > 95% of rated capacity, OCV≥OCV of fresh cell at 15%SOC, no corrosion, and cell dimensions unchanged	TBC
29		Point of no return	Charge: 6A, 4.1V, CCCV 50mA cut-off Test: 5K/min, until 135°C, then keep 30min	No fire, no explosion	
30	10s1p Battery pack (reference)	Discharge performance 1100W CP	At 20±3°C, 14.5A CC charge to 42.2V then CV to 130mA cut off. Rest for 30min and temperature lower than 23°C.	1100W CP discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3Ah)
31		Discharge performance 1700W Profile	At 20±3°C, 14.5A CC charge to 42.2V then CV to 130mA cut off. Rest for 30min and temperature lower than 23°C.	(1700W/10s,0W/5s)*9 times, 0W/60s, discharge until 2.5V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3Ah)
32	10s2p Battery pack (reference)	Discharge performance 2000W CP	At 20±3°C, 29A CC charge to 42.2V then CV to 260mA cut off. Rest for 30min and temperature lower than 23°C.	2000W CP discharge until 25V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3*2Ah)
33		Discharge performance 3000W Profile	At 20±3°C, 29A CC charge to 42.2V then CV to 260mA cut off. Rest for 30min and temperature lower than 23°C.	(3000W/10s,0W/5s)*9 times, 0W/60s, discharge until 25V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3*2Ah)
34		Discharge performance 3000W CP	At 20±3°C, 43.5A CC charge to 42.2V then CV to 390mA cut off. Rest for 30min and temperature lower than 23°C.	3000W CP discharge until 25V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3*3Ah)
35	10s3p Battery pack (reference)	Discharge performance 4000W Profile	At 20±3°C, 43.5A CC charge to 42.2V then CV to 390mA cut off. Rest for 30min and temperature lower than 23°C.	(4000W/10s,0W/5s)*9 times, 0W/60s, discharge until 25V or 80°C cutoff. Rest to temperature lower than 20±3°C.	≥ 85% of capacity(3*3Ah)
36		Empty before critically hot 4000W Profile	43.5A CC charge to 42.2V then CV to 390mA cut off.	At 65°C, 166A/30s, then 100A CC discharge until 25V cut off	Discharge maximum temperature <
37		Empty before critically hot 3300CP	43.5A CC charge to 42.2V then CV to 390mA cut off.	At 65°C, 3300W CP discharge until 25V cut off	Point of no return-20K

Charging Condition

Range	Cell surface temperature	Charging voltage	Charging current
Lower temperature	-10°C to 0°C	3.93V	1.5A
Low temperature	0°C to 10°C	4.20±0.05V	6A
Standard charge	10°C to 30°C	4.20±0.05V	9A
High temperature	30°C to 70°C	4.20±0.05V	14.5A
Pre-charge	-10°C to 60°C	1.5±0.03V~2.50±0.03V	1.5A

Note: *1C=3.0A