

Material Safety Data Sheet

1. Basic item

Product name Lithium ion battery (“Lithium ion battery” includes lithium polymer battery in this document)

2. Product information

Basic composition of the product

This product is a battery which consists of such main component as core battery pack assembled with some Lithium ion cells. And it consists of any combination of plastic casing, tube casing, protection circuit boards, safety devices and interface terminals.

3. Safety information

- Certifies the battery has passed and satisfied the UN Manual of Tests and Criteria Part III, sub-section 38.3 testing in Shipping.
- Manufactured the battery under the quality management program required in UN model

4. Battery pack

1. The Watt-hour rating of the battery is under than 100Wh.
2. Package of the battery satisfy the following conditions.
 - (1) The product name “Lithium ion batteries” and how to deal with the damage of the package are written on the label.
 - (2) The package has passed the drop test from the height of 1.2m.

5 The battery is not subject to the fully regulated requirements for Dangerous Goods in ocean and ground transportation.

Lenovo MSDS Finder

Last updated Sept 01, 2020

For more information, including how to locate your Lenovo FRU Part Number and what to do if your battery part number is not listed below, please visit:

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo model name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
5B10H45092		L14C3P60	SDS Coslight	5B10H45092 UN38.3	3.7	11.1	36	184.8	2.97
5B10K90787		L15C2PB5	SDS Coslight	5B10K90787 UN38.3	3.8	7.6	30	140.7	2.42
5B10K84638		L15C3PB1	SDS Coslight	5B10K84638 UN38.3	3.8	11.4	52.95	241.5	4.14
5B10K84639		L15C2PB1	SDS Coslight	5B10K84639 UN38.3	3.8	7.6	35.3	178.5	2.76
5B10L04162		L15C2P01	SDS Coslight	5B10L04162 UN38.3	3.8	7.6	35	192.2	2.79
5B10K90785		L15C2PB4	SDS Coslight	5B10K90785 UN38.3	3.8	7.6	30	141.8	2.42
5B10J40259		L15C4P71	SDS Coslight	5B10J40259 UN38.3	3.8	7.6	41	177.5	3.20
5B10K90784		L15C2PB2	SDS Coslight	5B10K90784 UN38.3	3.7	7.4	30	148.1	2.47
5B10K90786		L15C2PB3	SDS Coslight	5B10K90786 UN38.3	3.7	7.4	30	146.5	2.47
5B10L13961		L15C2PB6	SDS Coslight	5B10L13961 UN38.3	3.85	7.7	39	152.3	3.04
5B10L13960		L15C2PB7	SDS Coslight	5B10L13960 UN38.3	3.8	7.6	30	155.4	3.04
5B10M52739		L16C4PB1	SDS Coslight	5B10M52739 UN38.3	3.84	7.68	48	200	3.80
5B10M49821		L15C3PB1	SDS Coslight	5B10M49821 UN38.3	3.8	11.4	52.95	226.8	4.18
5B10M50525		L15C2PB1	SDS Coslight	5B10M50525 UN38.3	3.8	7.6	35.3	168	2.79
5B10M88059		L16C2PB1	SDS Coslight	5B10M88059 UN38.3	3.8	7.6	35	152.3	2.97
5B10M88058		L16C2PB2	SDS Coslight	5B10M88058 UN38.3	3.8	7.6	30	152.3	2.42
5B10N00766		L16C4PB3	SDS Coslight	5B10N00766 UN38.3	3.84	7.68	48	200	3.80
5B10N17665		L16C4P61	SDS Coslight	5B10N17665 UN38.3	3.84	7.68	70	283.5	5.47
5B10P35084		L17C4PB1	SDS Coslight	5B10P35084 UN38.3	3.84	15.36	79	341.3	6.22
5B10P53997		L17C2PB1	SDS Coslight	5B10P53997 UN38.3	3.8	7.6	30	164	2.42
5B10P54003		L17C2PB2	SDS Coslight	5B10P54003 UN38.3	3.85	7.7	39	164	3.04
5B10P54005		L17C2PB3	SDS Coslight	5B10P54005 UN38.3	3.8	7.6	30	167	2.42
5B10P53999		L17C2PB4	SDS Coslight	5B10P53999 UN38.3	3.85	7.7	39	167	3.04
5B10P98182		L17C2PB5	SDS Coslight	5B10P98182 UN38.3	3.85	7.7	39	187.5	3.04
5B10M87359		L17C3P61	SDS Coslight	5B10M87359 UN38.3	3.84	11.52	36	153.3	2.85
SB10K97581	01AV424	01AV424	SDS Coslight	SB10K97581 UN38.3	3.8	11.4	24	137.6	1.90
SB10K97624	01AV475	L17C4P71	SDS Coslight	SB10K97624 UN38.3	3.84	15.36	54	234	4.22
SB10K97627	01AV483	L17C3P53	SDS Coslight	SB10K97627 UN38.3	3.7	11.1	45	237.3	3.71
SB10K97609	01AV448	L17C3P51	SDS Coslight	SB10K97609 UN38.3	3.7	11.1	45	225	3.71
SB10K97573	01AV416	01AV416	SDS Coslight	SB10K97573 UN38.3	3.8	15.2	32	168	4.93
5B10Q56955		L16C2PB2	SDS Coslight	5B10Q56955 UN38.3	3.8	7.6	30	152.3	2.42
5B10Q22882		L17C4PB2	SDS Coslight	5B10Q22882 UN38.3	3.84	11.52	34	159.6	2.67
5B10Q16067		L17C4PB0	SDS Coslight	5B10Q16067 UN38.3	3.84	7.68	45	195.3	3.56
SB10K97613	01AV466	L17C3P52	SDS Coslight	SB10K97613 UN38.3	3.7	11.1	45	236	3.71
SB10K97619	01AV472	L17C6P71	SDS Coslight	SB10K97619 UN38.3	3.8	11.4	48	243.6	3.80
SB10K97629		L17C6P72	SDS Coslight	SB10K97629 UN38.3	3.8	11.4	48	243.6	3.80
5B10Q39205		L15C3PB1	SDS Coslight	5B10Q39205 UN38.3	3.8	11.4	52.95	221	4.18
5B10Q39200		L17C3P61	SDS Coslight	5B10Q39200 UN38.3	3.84	11.52	36	146	2.85
5B10Q71252		L17C3PB0	SDS Coslight	5B10Q71252 UN38.3	3.8	11.4	45	210	3.57
5B10Q88561		L17C3PG1	SDS Coslight	5B10Q88561 UN38.3	3.8	11.4	52.5	216	4.18
5B10Q93738		L17C2PF1	SDS Coslight	5B10Q93738 UN38.3	3.85	7.7	39	161	3.04
5B10Q88557		L17C3PG2	SDS Coslight	5B10Q88557 UN38.3	3.85	11.55	57	220	4.47
5B10Q88558		L17C4PG2	SDS Coslight	5B10Q88558 UN38.3	3.85	15.4	76.46	310	5.96
5B10Q82425		L17C4PH1	SDS Coslight	5B10Q82425 UN38.3	3.84	7.68	60	238	4.69
5B10Q88559		L17C3PG2	SDS Coslight	5B10Q88559 UN38.3	3.85	11.55	57	220	4.47
5B10R32748		L17C4PE1	SDS Coslight	5B10R32748 UN38.3	3.84	15.36	42	183	3.28
5B10Q38237		L16C4PB1	SDS Coslight	5B10Q38237 UN38.3	3.84	7.68	48	200	3.76
5B10R48675		L16C2PB2	SDS Coslight	5B10R48675 UN38.3	3.8	7.6	30	145	2.42
SB10Q76929		L17C4P72	SDS Coslight	SB10Q76929 UN38.3	3.84	15.36	80.4	323	6.28
SB10K97637		L17C6P51	SDS Coslight	SB10K97637 UN38.3	3.8	11.4	99	475	7.82
5B10R38649		L17C4PF0	SDS Coslight	5B10R38649 UN38.3	3.84	15.36	45	186	3.56
5B10R37085		L17C4PH3	SDS Coslight	5B10R37085 UN38.3	3.84	7.68	61	260	4.68
5B10R48676		L16C2PB1	SDS Coslight	5B10R48676 UN38.3	3.8	7.6	35	145	2.79
5B10R48675		L16C2PB2	SDS Coslight	5B10R48675 UN38.3	3.8	7.6	30	145	2.42
5B10S73501		L18C4PF0	SDS Coslight	5B10S73501 UN38.3	3.84	15.36	45	180	3.56
5B10T07385		L18C4PC0	SDS Coslight	5B10T07385 UN38.3	3.86	7.72	52	216	4.053
5B10T09081		L18C4PF3	SDS Coslight	5B10T09081 UN38.3	3.84	15.36	45	181	3.57
5B10T09077		L18C4PF4	SDS Coslight	5B10T09077 UN38.3	3.86	15.44	50	190	3.906
5B10T11586		L18C4PH0	SDS Coslight	5B10T11586 UN38.3	3.84	7.68	60	257	4.692
5B10T30218		L17C3PG1	SDS Coslight	5B10T30218 UN38.3	3.8	11.4	52.5	240	4.1805
5B10T31045		L17C3PG2	SDS Coslight	5B10T31045 UN38.3	3.85	11.55	57	243	4.4685
5B10T30217		L17C3PG2	SDS Coslight	5B10T30217 UN38.3	3.85	11.55	57	243	4.4685
5B10U65274		L19C4PD1	SDS Coslight	5B10U65274 UN38.3	3.84	7.68	60	254.82	4.692
5B10T07385		L18C4PC0	SDS Coslight	5B10T07385 UN38.3	3.86	7.72	52	233	4.053
SB10W8619		L19C4PC1	SDS Coslight	SB10W86193 UN38.3	3.85	15.4	80	343	6.402
SB10W8619		L19C4PC2	SDS Coslight	SB10W86197 UN38.3	3.85	15.4	80	343	6.402
SB10W8696		L19C4PF1	SDS Coslight	SB10W86960 UN38.3	3.8	15.2	70	314	5.574
SB10W8695		L19C3PF3	SDS Coslight	SB10W86954 UN38.3	3.85	11.55	56.5	241.31	4.4685
SB10W8984		L19C3PF6	SDS Coslight	SB10W89845 UN38.3	3.75	11.25	42	205.3	3.3615
SB10X02595		L19C3PF8	SDS Coslight	SB10X02595 UN38.3	3.86	11.58	37.5	151	2.9295
SB10X18189		L19C4PF2	SDS Coslight	SB10X18189 UN38.3	3.84	15.36	70	296	5.472
SB10X87837		L19C4PD8	SDS Coslight	SB10X87837 UN38.3	3.84	7.68	41	176.8	6.492
SB10W6732		L16C2PB2	SDS Coslight	SB10W67324 UN38.3	3.8	7.6	30	152.3	2.418
SB10W6732		L16C2PB1	SDS Coslight	SB10W67328 UN38.3	3.8	7.6	35	152.3	2.787
SB10W6721		L17C2PB1	SDS Coslight	SB10W67211 UN38.3	3.8	7.6	30	164	2.418
SB10W6717		L17C2PB2	SDS Coslight	SB10W67175 UN38.3	3.85	7.7	39	164	3.042
SB10W6722		L17C2PB3	SDS Coslight	SB10W67228 UN38.3	3.8	7.6	30	167	2.418
SB10W6724		L17C2PB4	SDS Coslight	SB10W67241 UN38.3	3.85	7.7	39	167	3.042
SB10W6716		L17C2PB5	SDS Coslight	SB10W67162 UN38.3	3.85	7.7	39	187.5	3.042
SB10W6734		L17C2PF1	SDS Coslight	SB10W67345 UN38.3	3.85	7.7	39	161	3.042
SB10W6719		L17C3PG2	SDS Coslight	SB10W67190 UN38.3	3.85	11.55	57	243	4.4685
SB10W6725		L17C4PG2	SDS Coslight	SB10W67256 UN38.3	3.85	15.4	76.46	310	5.958
SB10W6730		L17C4PE1	SDS Coslight	SB10W67305 UN38.3	3.84	15.36	42	183	3.282
SB10W6731		L17C4PF0	SDS Coslight	SB10W67316 UN38.3	3.84	15.36	45	186	3.56
SB10W6719		L18C4PF3	SDS Coslight	SB10W67192 UN38.3	3.84	15.36	45	181	3.557
SB10W6738		L18C4PF4	SDS Coslight	SB10W67388 UN38.3	3.86	15.44	50	190	3.906
SB10W6720		L18C4PF0	SDS Coslight	SB10W67202 UN38.3	3.84	15.36	45	180	3.556
SB10W6741		L18C4PH0	SDS Coslight	SB10W67416 UN38.3	3.84	7.68	60	257	4.692
SB10W6739		L19C4PD1	SDS Coslight	SB10W67395 UN38.3	3.84	7.68	60	254.82	4.692

* Due to the unique cell configuration of this battery pack (hybrid battery pack with 4 cylindrical cells and 4 prismatic cells in the pack) please use both MSDS sheets referenced

Celxpert Safety Data Sheet

[29 CFR 1910.1200]

Safety Data Sheet

May be used to comply with OSHA's Hazard communication Standard, 29 CFR 1910.1200.

Standard must be consulted for specific requirements.

US Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form) Form Approved
OMB No.1218-0072

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : Lithium Ion Rechargeable Battery Pack

Product Detail information: Refer Table "SDS_Coslight"

MANUFACTURER : Celxpert(KunShan)Energy Co., Ltd

ADDRESS : NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R.
China

TELEPHONE : +86-512-57775999#2532

FAX : +86-512-5777-3839

SECTION 2: HAZARDS IDENTIFICATION

PROTENTIAL HEALTH EFFECTS

PRIMARY ROUTES OF ENTRY

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion : NO

SYMPTOMS OF EXPOSURE

Skin contact

No effect under routine handling and use.

Skin absorption

No effect under routine handling and use.

Eye contact

No effect under routine handling and use.

Inhalation

No effect under routine handling and use.

SECTION 3: INGREDIENT

Battery Cell

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Cobalt compound	4-50	1307-96-6
Styrene-Butadiene-Rubber	<1	27288-99-9
Aluminum Foil	2-10	7429-90-5
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon	10-30	7440-44-0
Electrolyte (Ethylene carbonate)	10-20	96-49-1
Lithium hexafluorophosphate	<5	21324-40-3
Stainless steel, Nickel and inert materials	Remainder	N/A

Circuit Module

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	0.001	7439-92-1
Mercury	0	7439-97-6
Chromium	0	7440-47-3
Cadmium	0	7440-43-9
Plastic case and Si2O	0	N/A

Plastic Parts and Paints

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	<0.1	7439-92-1
Nickle	<0.01	7440-02-0
CFCs	0	75-69-4
Polychlorinated Biphenyls	0	1336-36-3

SECTION 4: FIRST AID MEASURES

INHALATION, EYE CONTACT, and SKIN CONTACT : Not a health hazard.

INGESTION

If swallowed, obtain medical attention immediately.

If exposure to internal materials within cell(pack) due to damaged outer casing, the Following actions are recommended.

INHALATION

Leave area immediately and seek medical attention.

EYE CONTACT

Rinse eyes with water for 15 minutes and seek medical attention.

SKIN CONTACT

Wash area thoroughly with soap and water and seek medical attention.

INGESTION

Drink milk/water and induce vomiting; seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 GENERAL HAZARD

Cell is not flammable but internal organic material will burn if the cell is incinerated.

Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

5.2 EXTINGUISHING MEDIA

Use extinguishing media suitable for the materials that are burning.

5.3 SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

5.4 FIREFIGHTING EQUIPMENT

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 ON LAND

Place material into suitable containers and call local fire/police department.

6.2 IN WATER

If possible, remove from water and call local fire/police department.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

No special protective clothing required for handling individual cells.

7.2 STORAGE

Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS//PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Keep away from heat and open flame. Store in a cool dry place.

8.2 PERSONAL PROTECTION

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required beyond safety practices of employer.

Gloves: Not required for handling of cells.

Foot protection: Steel toed shoes recommended for large container handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid	Boiling point : N/A
Odor : N/A	Solubility in water : Insoluble
PH : N/A	Specific gravity : N/A
Vapor pressure : N/A	Density : N/A
Vapor density : N/A	Flash Point : N/A

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

None

10.2 INCOMPATIBILITIES

None during normal operation. Avoid exposure to heat, open flame, and corrosives.

10.3 HAZARDOUS DECOMPOSITION PRODUCTS

None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

10.4 CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

SECTION 11: TOXICOLOGICAL INFORMATION

This product does not elicit toxicological properties during routine handling and use.

Sensitization: NO Teratogenicity: NO Reproductive toxicity:NO Acute toxicity: NO

This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in Appendix of TCO documents and relevant international ECO requirements:

Polybromated Biphenyls (PBB)
Polybromated Diphenylethers (PBDE)
Polychlorinated Biphenyls (PCBs)
Polychlorinated Terphenyls(PCTs)
Polychlorinated Paphthalene(PCN)
Chlorinated Paraffins(C10-C13)
Chlorofluorocarbons(CFCs)
Polyvinyl Chloride(PVC)
Carbon Tetrachloride

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

Chlorinated Fluorohydrocarbon (FCKW)
Acrylonitrile
Styrol
Phenol
Benzol
Mercury of greater than 0.0001 wt% for alkaline battery
Mercury of greater than 0.0005 wt% for other battery
Lithium content of greater than 0.5g/battery cell

Cadmium, lead, and other harmful heavy metal

And will comply with the regulation of 49 CFR (DOT regulation), International Air Transport Association (IATA), and Deuche Forschungsgemeinschaft (DFG) regarding concentrations of emitted substances.

This product does not contain mercury and cadmium.

Mercury content: N/A

Cadmium content: N/A

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

SECTION 12: ECOLOGICAL INFORMATION

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

SECTION 13: DISPOSAL CONSIDERATIONS

[Disposal should be in accordance with local, state or national legislation.](#)

SECTION 14: TRANSPORT INFORMATION

- The International Air Transport Association (IATA) Dangerous Goods Regulations ([61th Edition, 2020](#)). Packing instruction 965 IA/IB/ Section II for Lithium Ion battery.
- The International Maritime Dangerous Goods (IMDG) Code , [2018 Edition \(Incorporating Amendment 39-18 \) with special provision 188 & 230](#).
- US Hazardous Materials Regulations 49 CFR(Code of Federal Regulations)Sections 173-185 Lithium batteries and cells.
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, ST-SG-AC10-11-Rev6-Amend1 (UN3480) .

SECTION 15: REGULATORY INFORMATION

[OSHA hazard communication standard \(29 CFR 1910.1200\)](#)

Hazardous

 V Non-hazardous

SECTION 16: OTHER INFORMATION

Package if damaged: do not load or transport.

Celxpert contact window: [David Lee](#)

For more information, call: [+86-0512-57775999](#)

SECTION 17: UN MANUAL OF TEST CRITERIA

All battery pack model pass UN383 test and drop test.

Item	Test Item	Test specification
T1	Altitude Simulation (UN38.3-1)	1-1.4 batteries are standard charged. 4 batteries are 1C cycled 25 times, ending in fully charged state. All batteries weight is measured. The charged batteries voltage are measured and recorded. 1-2. Batteries shall be stored at a pressure of 11.6Kpa or less for at least six hours at ambient temperature 20+/-5 °C. 1-3. Vacuum is released. All cells weight is measured. The charged cell voltage are measured and recorded.
T2	Thermal test (UN38.3-2)	2-1. Packs are stored for 6 hours at 72°C±2°C, followed by storage for 6 hours at -40°C±2°C. The maximum time interval between test temperature extremes is 30 minutes. 2-2. Repeat 2-1 for 10 times. Then store the packs at ambient for 24 hours. All packs weight are measured. The charged battery voltage are measured and recorded.

Item	Test Item	Test specification
T3	Vibration test (UN38.3-3)	<p>3-1. Packs are firmly secured to the platform of the vibration machine without distorting the packs in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of 3 mutually perpendicular to the terminal face.</p> <p>3-2. The logarithmic frequency sweep is as follows: 7-18 Hz → 1gn 18-50 Hz → 0.8mm amplitude 50-200 Hz → 8gn</p> <p>3-3. All packs weight are measured. The charged packs voltage are measured and recorded.</p>
T4	Shock test (UN38.3-4)	<p>4-1. Packs shall be secured to the testing machine by means of a rigid mount, which will support all mounting surfaces.</p> <p>4-2. Packs shall be subjected to a half-sine shock of peak acceleration 150gn and pulse duration of 6 milliseconds. Each pack shall be subjected to 3 shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicularly mounting positions of the pack for a total of 18 shocks.</p> <p>4-3. All batteries weight are measured. The charged cell voltage are measured and recorded.</p>
T5	Short Circuit Test (UN38.3-5,	<p>5-1. Packs are placed in to a 57°C±4°C oven, and exterior packs temperature are monitored</p> <p>5-2. When packs exterior reach 57°C±4°C, they are shorted by connecting terminals with a copper wire of resistance less than 100 mOhm.</p> <p>5-3. The short was continued for more than 1hour or the cell temperature return to 57°C. The packs are observed for a further 6 hours.</p>
T6	Impact test (UN38.3-6)	<p>6-1. Cell's diameter ≥ 18mm, Execution impact test. (A 9.1 Kg mass is to be dropped from a height of 61±2.5cm onto the sample.)</p> <p>6-2. Cell's diameter < 18mm, Execution crush test (The cells are crushed with a 13 KN with the crush tester. Once the force is obtained it is to be released.)</p>
T7	Overcharge test (UN38.3-7)	<p>7-1. The charge current shall be twice the SPEC's recommended maximum continuous charge current.</p> <p>7-2. The minimum voltage of the test shall be as follows: (a) When the SPEC's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V. (b) When the SPEC's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.</p> <p>7-3. Tests are to be conducted at ambient temperature. The duration of the test shall be 24 hours.</p>
T8	Forced discharge test-cell only (UN38.3-8)	<p>8-1. Cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current Specified by the manufacturer.</p>

Package Drop Test: Test specification: Height :120cm.