

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUC	SECTION 1 PRODUCT IDENTIFICATION								
 Product Identification 									
	Polymer Lithium-Ion	Rechargeable Batte	ry		PACK P/N:			1S1P-LSSP480934AE- PCM(DTB480934SA)	
	Nominal Voltage(V):	ominal Voltage(V): 3.7			Minimum PACI	K Capacity(mAh):		120	
	Cell P/N:	SP480934	IAE		PACK UL NO:			MH27663	
	Minimum Cell Capacity(mAh):	122			Customer Project	ct Name:		Phelps	
	Cell UL NO:	MH2760	63						
	Customer P/N:	N/A							
Manufacture Identification Tianjin Lishen Battery Joint-Stock CO. LTD.					86 - 22 - 837103	366			
				•	Phone Number	(For Information)			
	6 Lanyuan Road, Huayuan Hi-T	ech			86 - 22 - 837103 Emergency Phot	ne Number Telex'			
	Industry Park, Tianjin 300384, C	China			86 - 22 - 837103				
	Http://www.lishen.com.cn					ces are not permitted narked to indicate that		n is not applicable or no inform	nation is available, the
SECTION 2 HAZARD	OC IDENTIFICATION				space must be ii	iarked to indicate the	at.		
SECTION 2 HAZARI		.			C NED		L OCITA		
D. D. CE.	■ Inhalation ■ Ingestion			CARCINOGEN	□ NTP	Ц	OSHA		
Primary Routes of Entry	Skin Absorption	Skin Absorption Eye contact		LISTED IN	□ LARC Mon	ograph \square	NOT Liste	ed	
	Acute and chronic	1.1 5:1.6		1.04.1					
Health Hazards	All chemicals are contained in a	sealed can. Risk of	exposure oc	curs only, if the battery is m	echanically or ele	ctrically abused(med	chanical, the	rmat, electrical), which leads	
	to the rupture of the battery cont	ainer. Electrolyte lea	akage, electro	ode materials reaction with	moisture/water o	r battery vent/fire ma	ay follow, d	epending upon the circumstance	ces.
Medical Conditions Gene	erally Aggravated By Exposure								
An acute exposure will i	not generally aggravate any medic								
Symptoms of Exposure	Skin contact, no effect under rou		se.						
Eye Contact	No effect under routine handling	g and use							
Skin Contact	No effect under routine handling								
Ingestion	No effect under routine handling	g and use							
Inhalation	No								
Reported as carcinogen	Not applicable								
SECTION 3 COMPOS	ITION & INFORMATION OF	NINGREDIENTS							
Equivalent lithium conte	nt per cell (g)			0.036	OSHA	ACGIH			
COMPONENTS Character	-1N N				USHA	1100111		CAS Number	OTHER LIMITS
	cal Name and Common Names	10/		%				CAS Number	OTHER LIMITS
	1% or greater, Carcinogens 0.1		.,		PEL	TLV			OTHER LIMITS RECOMMENDED
	1% or greater, Carcinogens 0.1 Cathode active material	Lithium Cobalt O	xide	34%				12190-79-3	
	1% or greater, Carcinogens 0.1	Lithium Cobalt O Graphite		34% 14%				12190-79-3 7782-42-5	
	1% or greater, Carcinogens 0.1 Cathode active material	Lithium Cobalt O Graphite LiPF ₆	12%	34% 14% 2%				12190-79-3 7782-42-5 21324-40-3	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material	Lithium Cobalt O Graphite LiPF ₆ EC	12% 30%	34% 14% 2% 5%				12190-79-3 7782-42-5 21324-40-3 96-49-1	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material	Lithium Cobalt O Graphite LiPF ₆ EC EMC	12% 30% 50%	34% 14% 2% 5% 8%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte	Lithium Cobalt O Graphite LiPF ₆ EC	12% 30%	34% 14% 2% 5% 8% 1%				12190-79-3 7782-42-5 21324-40-3 96-49-1	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC	12% 30% 50%	34% 14% 2% 5% 8%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel	12% 30% 50%	34% 14% 2% 5% 8% 1% 1%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum	12% 30% 50%	34% 14% 2% 5% 8% 1% 0%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-50-8	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Aluminum Copper Carbon	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 10% 4% 11% 2%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7449-90-5 7440-50-8 7440-44-0	
(Hazardous Components	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Aluminum Copper Carbon Polyvinylidene flu	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 11% 0% 4% 111% 2% 2%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-50-8 7440-44-0 24937-79-9	
(Hazardous Components Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flur Polypropylene	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 10% 4% 11% 2%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-50-8 7440-44-0 24937-79-9 9003-07-0	
(Hazardous Components Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape	Lithium Cobalt O Graphite LiFF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene	12% 30% 50% 8%	34% 14% 2% 5% 8% 119 11% 096 44% 1119 296 296				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-44-0 24937-79-9 9003-07-0	
(Hazardous Components Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polyethylene	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 11% 0% 4% 111% 2% 2%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7449-90-5 7440-60-8 7440-44-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4	
(Hazardous Components Hazardous Ingredients: Non-Hazardous	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polyethylene Nylon	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 196 11% 296 496 2119 296 11% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-50-8 7440-44-0 24937-79-9 9003-07-0 9002-88-4 32131-17-2	
(Hazardous Components Hazardous Ingredients: Non-Hazardous	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polycthylene Nylon Aluminum	12% 30% 50% 8%	34% 14% 2% 5% 8% 119 11% 096 44% 1119 296 296				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polyethylene Nylon	12% 30% 50% 8%	34% 14% 2% 5% 8% 1% 1% 0% 44% 11% 2% 2% 11% 2% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-50-8 7440-44-0 24937-79-9 9003-07-0 9002-88-4 32131-17-2	
(Hazardous Components Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polycthylene Nylon Aluminum	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 196 11% 296 496 2119 296 11% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients:	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator Package	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polycthylene Nylon Aluminum	12% 30% 50% 8%	34% 14% 2% 5% 8% 1% 1% 0% 44% 11% 2% 2% 11% 2% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients: Total SECTION 4 FIRST-AI	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator Package	Lithium Cobalt O Graphite LiFF ₆ EC EMC PC Nickel Aluminum Aluminum Copper Carbon Polyvinylidene flue Polypropylene Polypropylene Nylon Aluminum Polypropylene	12% 30% 50% 8%	34% 14% 2% 5% 8% 11% 11% 0% 4% 111% 296 2% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients: Total SECTION 4 FIRST-AI	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator Package	Lithium Cobalt O Graphite LiPF ₆ EC EMC PC Nickel Aluminum Aluminum Copper Carbon Polyvinylidene flu- Polypropylene Polypropylene Nylon Aluminum Polypropylene Nylon Aluminum Polypropylene	12% 30% 50% 8% oride	34% 14% 2% 5% 8% 11% 11% 0% 4% 111% 2% 296 11% 10%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients: Total SECTION 4 FIRST-AI If exposure to internal materials	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator Package	Lithium Cobalt O Graphite LiFF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flue Polypropylene Polypropylene Polypropylene Polypropylene Polypropylene Polypropylene Polypropylene Nylon Aluminum Polypropylene	12% 30% 50% 8% oride	34% 14% 2% 5% 8% 1% 1% 0% 4% 11% 2% 2% 2% 1196 10% 6% 100%				12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	
(Hazardous Components Hazardous Ingredients: Non-Hazardous Ingredients: Total SECTION 4 FIRST-AI If exposure to internal management in the second of th	1% or greater, Carcinogens 0.1 Cathode active material Anode active material Electrolyte Anode tab Cathode tab AL foil Cu foil Conductive additive Adhesive Tape Separator Package ID MEASURES aterials in cell due to damaged of the control o	Lithium Cobalt O Graphite LiFF ₆ EC EMC PC Nickel Aluminum Copper Carbon Polyvinylidene flu Polypropylene Polypropylene Polypropylene Nylon Aluminum Aluminum Aluminum copper carbon on the second se	12% 30% 50% 8% oride	34% 14% 2% 5% 8% 11% 1% 0% 4% 11% 2% 2% 11% 2% 10% 6% 100%	PEL			12190-79-3 7782-42-5 21324-40-3 96-49-1 623-53-0 108-32-7 7440-02-0 7429-90-5 7429-90-5 7440-40-0 24937-79-9 9003-07-0 9003-07-0 9002-88-4 32131-17-2 7429-90-5	



2021/12/2



■ Will Not Occur

SECTION 5 FIREFIGHTING MEASURES Extinguisher Media:						
CO ₂ or dry chemical power						
Special Fire-Fighting Procedures:						
In case of fire in cell original containers, use CO2 or dry chemical extinguisher; For fire in an adjacent area, water can be used.						
SECTION 6 ACCIDENTAL RELEASE MEASURES						
On Land:						
Place material into suitable containers, If the skin has com-	ne into contact with the electroly	te, it should be washed thoroughly with water	r, Sand or earth should be used to absorb any exuded			
material. Seal leaking battery and contaminated absorbent m	aterial should be treated by loca	regulation, and call local fire/police departm	nent to ask for help.			
In Water:						
If possible, remove from water far from body in special fit	xture, and call local fire/police d	epartment to ask for help				
SECTION 7 HANDING AND STORAGE						
Handling:						
Take all precautions mentioned in this document and open	•					
No special protective clothing required for handling indiv	•					
			not crush, pierce, short cell/battery terminals with conductive			
material; Do not directly heat or solder; do not throw into fir Storage:	e; do not place cell/battery in no	n conductive trays.				
Store the battery in a cool, drying place, without chemical	vapor or excessive humidity.					
SECTION 8 EXPOSURE CONTROLS & PERSONAL	L PROTECTION					
Engineering Controls:						
keep away from heat and open flame, prevent hard & share	p thing penetration, store in a co	ool & dry place.				
Personal Protection:						
Respiratory Protection: Not necessary under normal opera Eye/Face Protection: Not necessary under normal operation		in the event of a fire.				
Glove protection: Not necessary under normal operation of						
Foot Protection: Steel toed shoes recommended for Large						
	☐ Local Exhaust		□ Mechanical (General)			
	N-4	-6 N1	Not necessary under conditions of Normal use.			
Ventilation to Be Used	Not necessary under conditions	of Normal use.	□ Special Not necessary under conditions of Normal use.			
	□ Other (Specify)		provinceously under conditions of Frontial doc			
	Not necessary under normal op	eration conditions.				
Other Protective Clothing and Equipment						
Not necessary under normal operation conditions.						
Hygienic Work Practices						
Not necessary under normal operation conditions.						
SECTION 9 PHYSICAL /CHEMICAL PROPERTIES	S					
Specific Gravity (H2O=1):		G 1: 20.22				
LiCoO ₂ :3.80 Graphite:2.0~2.2						
Melting Point: LiCoO2:1130°C Graphite:3500-3900°C						
Appearance and Odor:		Grapine.3300 3700 C				
LiCoO ₂ is a gray odorless power; Graphite is a black or or	dorless power;					
Organic solvent is a colorless liquid; Lithium salt is a white, crystalline and odorless power.						
SECTION 10 STABILITY & REACTIVITY DATA						
tability Conditions to Avoid:						
■ Stable	Do not heat or incinerate the ba	ttery, Never impact, pierce or crush the batto	ery.			
	Do not disassemble or modify the battery,					
☐ Hactoble	•					
□ Unstable	Unstable Do not charge the battery under high temperature conditions such as near a fire or in the direct sunlight.					
	Do not shot-circuit the battery by connect the positive and negative terminals with a metal material.					
	Do not allow the battery to get	wet or be immersed in water.				
Incompatibility (Materials to Avoid)						
Water, salted water, other solvent with water						
Hazardous Decomposition Products						
N/A						
azardous Polymerization Conditions to Avoid						
□ May Occur						



SECTION 11 TOXICOLOGICAL INFORMATION

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

SECTION 12 ECOLOGICAL INFORMATION

Cobalt and its compounds can pose a threat if released to environment. The detail information are showed in waste disposal method in Section 13 "Disposal Consideration".

SECTION 13 DISPOSAL CONSIDERATIONS

There is no contamination during normal operation and use. Lithium batteries should have their terminals insulated prior to disposal, do not throw away a used battery and provide them for recycling company.

Open cells should be treated as hazardous waste. If the leakage or other material is Released, we should take actions as follows:

Leave the area, allow the batteries to cool down, let the vapors to dissipate .

Avoid skin and eye contact or inhalation of vapors. Remove spiller liquid with absorbent and incinerate after.

Waste Disposal method Opened cells should be treated as hazardous waste.

Incineration: incineration should never be performed by battery users but eventually by trained professionals in authorized facilities with proper gas and fumes treatment.

Landfilling:According to the proper laws and regulations in different countries or areas, the battery should be buried deeply in the specified place;

Recycling: Send to authorized recycling facilities to get Co,Cu and Al, eventually through licensed waste carrier;

SECTION 14 Transportation

Lishen's SP480934AE Lithium Ion batteries are considered to be "rechargeable batteries" and meet the requirements of transportation by th U.S. Department of Transportation,
Civil Aviation Organization (ICAO) Technical Instructions (2020-2021 Edition), the International Air Transport Association (IATA) Dangerous Goods Regulations (62th Edition, 2021). Packing
instruction 965 Section IB or II for Lithium Ion battery, the International Maritime Dangerous Goods (IMDG) Code (2018 Edition) with special provision 188 & 230, US Harzardous 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,
6th revised edition(UN3480) as "non-dangerous goods" or "non-hazardous materials". The mentioned batteries are complied with the special provision, Section II of PI965 to PI967. These lithium batteries
can be transported in nonrestrictive material and as Non-Dangerous Goods as they meet all the requirements in below:

can be transported in no	onrestrictive material and as Non-Dangerous Goods as they meet all the requirements in below:
1	Lithium content requirement
1.1	For the bar cells,the lithium content can not overpass 20Wt/h;
1.2	For the batteries, the lithium content can not overpass 100Wt/h;
2	Meet with UN Test Requirement
2.1	All the cell and battery must be verified to meet with all the requirements in Part 3 -38.3 item (UN38.3 tests) for "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria".
3	Package Requirement
3.1	The cell and battery must be packaged specially and singly, and put into hard outer package to prevent short-circuit if they do not be assembled in finished equipments (such as mobile phone,camera,NBPC.and so on)
3.2	The cell quantity is more than 24pcs or the battery quantity is more than 12pcs, they must be asked to meet with the requirements in blow besides they are assembled in finished equipment.
a	Every package must be marked in the content that the packages are loaded in lithium cells or batteries, also add new lithium iron operation label, also need point out the corrective actions when the packages are damaged.
b	Every batch shipment must be appendixes document which should contain the content that the packages are loaded in lithium cells or batteries, also need point out the corrective actions when the packages are damaged.
C	Every package must pass 1.2mm fall test in any direction. No damage for the cells and batteries, no move and touch together, no cells or batteries escape from the package.
d	Every package weight can not overpass 10kg if the batteries can not be assembled in finished equipment.
CECTION 15 DECLI A	A TODY INFORMATION

SECTION 15 REGULATORY INFORMATION

OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazardous / Non-hazardo

SECTION 16 OTHER INFORMATION

There is no hazards in accordance with the UN recommendations test.(UN manual of tested and criteria 38.3)

Battery Number	1S1P-LSSP480934AE- PCM(DTB480934SA)
Nominal Voltage	3.7
Minimum PACK Capacity	120mAh
Battery Mass	2.4g
Equivalent Lithium Content	0.036g

Test NO	Test Item	Criteria	Result
38.3.4.1	Altitude Test	No mass loss,leakage,venting,disassembly,rupture,and fire.OCV should not be less than 90% before testing	Passed
38.3.4.2	Thermal Test	No mass loss,leakage,venting,disassembly,rupture,and fire.OCV should not be less than 90% before testing	Passed
38.3.4.3	Vibration	No mass loss,leakage,venting,disassembly,rupture,and fire.OCV should not be less than 90% before testing	Passed
38.3.4.4	Shock	No mass loss,leakage,venting,disassembly,rupture,and fire.OCV should not be less than 90% before testing	Passed
38.3.4.5	External Short Circuit	External temperature should not exceed 170degC.No disassembly, and fire within six hours of this test.	Passed
38.3.4.6	Impact	External temperature should not exceed 170degC.No disassembly, and fire within six hours of this test.	
38.3.4.7	Overcharge	No disassembly, and fire within seven days of this test.	Passed
38.3.4.8	Forced Discharge	No disassembly, and fire within seven days of this test.	