



WUXIANG

Shenzhen Wuxiang Testing (Group) Co., Ltd Report No. WUX202206162085UL

**APPLICATION FOR TEST REPORT
UL ANSI/CAN/UL 2272**

On Behalf of

Prepared For: shenzhenshikeruiankejiyouxiangongsi
Address: shenzhenshibaoanqushiyanjiedaoluozushequdisangongyequ6.7.8haozonghelou
408
Product Name: Voyager
Model: MB0061
Trade Mark: MEEPO
Manufacturer: shenzhenshikeruiankejiyouxiangongsi
Address: shenzhenshibaoanqushiyanjiedaoluozushequdisangongyequ6.7.8haozonghelou
408
Prepared By: Shenzhen Wuxiang Testing (Group) Co., Ltd
Building B, Xinbaosheng, No.233, Xixiang Street, Bao'an District, Shenzhen,
China

Test Date: May 10, 2022 to May 17, 2022
Date of Report: May 17, 2022
Report No.: WUX202206162085UL





WUXIANG

Shenzhen Wuxiang Testing (Group) Co., Ltd Report No. WUX202206162085UL

ANSI/CAN/UL 2272 TEST REPORT

Standard: <u>ANSI/CAN/UL 2272-2016</u>			
Report No.:	<u>WUX202206162085UL</u>	Client:	shenzhenshikeruiankejiyouxiangongsi
Product:	Voyager	Rated input	Adaptor:Input:AC100-240V,50/60HZ,5A
Project Engineer:	Tony Bi	Rated output	DC50.4V 45A
Test Engineer:	Rust He	Protection class	--
Application Date	May. 10, 2022	Protection against moisture:	Min. IP44
Requested Date	May. 17, 2022	Construction:	With battery
Re-test	<input type="checkbox"/>	Operation mode	Continous
Full-test	<input checked="" type="checkbox"/>	Weight:	<20kg
Model/ type reference:	MB0061	Sample No.	1#,2#
Should the heating test be done in heating oven?	<input type="checkbox"/> Yes °C <input checked="" type="checkbox"/> No		
Altitude during operation (m)	<input type="checkbox"/> Up to 2000 <input checked="" type="checkbox"/> No		
Altitude of test laboratory (m)	<input checked="" type="checkbox"/> below 2000 <input type="checkbox"/> No		
Other information:.....	Outdoor used, Battery , With over charge protection, Over discharge protection, over current protection and temperature protection.		

Lab Use Only			
Lab Start Date	May. 10, 2022	Lab Finish Date	May. 17, 2022
Ambient Temperature, °C	24.8	Relative Humidity, %	48.6

Remarks:

Tested by: Rust He



Checked by: Tony Bi.

****Modified History****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2022/05/17	Rust He
Revision 2.0	All test data were obtained from: WUX202205101571UL. Added three photos.	2022/06/17	Rust He



No.1	Clause(s)	Test(s)	Remark	Comment
1	6	Non-Metallic Materials	UL 746 RTI>80°C V-1, UL94	Pass
2	7	Metallic Parts Resistance to Corrosion	Paint	Pass
3	8	Enclosures	No Opening Min. IP44	Pass
4	9	Wiring and Terminals	Non-replaceable batteries No Terminals outside	Pass
5	10	Chargers	UL 1310	Pass
6	11	Fuses	No fuse	N/A
7	12	Lighting	No lighting	N/A
8	13	Electrical Spacings and Separation of Circuits		Pass
9	14	Insulation Levels and Protective Grounding	No earth	N/A
10	15	Protective Circuits and Safety Analysis	IEC 60812 IEC61025 UL 991	Pass
11	16	Cells	UL 2580	Pass
12	17	Motors	UL 1004-1	Pass
13	18	Manufacturing and Production Line Testing		N/A
14	19	PERFORMANCE		Pass
15	20	Tolerances		Pass
16	21	Post Test Cycle		Pass
17	22	Results Criteria		Pass
18	23	Overcharge Test	See the table	Pass
19	24	Short Circuit Test	See the table	Pass
20	25	Over discharge Test	See the table	Pass
21	26	Temperature Test	See the table	Pass
22	27	Imbalanced Charging Test	See the table	Pass
23	28	Dielectric Voltage Withstand Test	See the table	Pass
24	29	Isolation Resistance Test	See the table	Pass
25	30	Vibration Test	See the table	Pass



26	31	Shock Test	See the table	Pass
27	32	Crush Test	See the table	Pass
28	33	Drop Test	See the table	Pass
29	34	Mold Stress Relief Test		N/A
30	35	Motor Overload Test	See the table	Pass
31	36	Motor Locked Rotor	See the table	Pass
32	37	Strain Relief Tests		N/A
33	38	Water Exposure Tests	See the table	Pass
34	39	Thermal Cycling Test	See the table	Pass
35	40	Label Permanence Test	See the table	Pass
36	41	MARKINGS	See the table	Pass
37	42	INSTRUCTIONS	See the table	Pass

**Protection of Users – Accessibility of Terminals (9)**

9	Accessibility probe				Pass
Location	Dimension of opening	Tester	Observations	Pass	Fail
Opening	No opening	Articulate probe	Can't touch Live parts and dangerous moving parts	√	--

Spacings (13)

13	Electrical Spacings					Pass
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
opposite polarity of battery	--	50.4	1.6	>3.2	1.6	>3,2
Input to Enclosure	--	--	--	--	--	--
Primary component to accessible enclosure (RI)	--	--	--	--	--	--
Primary trace to secondary trace under transformer (T1) (RI)	--	--	--	--	--	--
Primary winding to secondary winding of transformer (T1) (RI)	--	--	--	--	--	--
Supplementary information						
Note(s): --						

**Overcharge Test (23)**

23	TABLE: Overcharge Test				P
Model	OCV at start of test, (Vdc)	Constant charging current (A)	Maximum outer casing temperature(° C)	Results	
battery	30V	8	44.9	P	
--					
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - NR: No Rupture - NS: No Electric shock hazard - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)					

Short Circuit Test (24)

24	TABLE: Short-Circuit Test				P
Model	Ambient, (° C)	OCV at start of test, (Vdc)	Resistance of circuit, (mΩ)	Maximum case temperature rise ΔT , (° C)	Results
battery	24.2	40.82	<20mΩ	21.8	P
--	--	--	--	--	--



Supplementary information:
 supplementary information:
 - NF: No Fire
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 - NS: No Electric shock hazard
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 - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
 - Leakage: visible escape of liquid electrolyte.- Others (please explain)

Over discharge Test (25)

23	TABLE: Over discharge Test				P
Model	OCV at start of test, (Vdc)	Constant discharging current (A)	Maximum outer casing temperature(° C)	Results	
battery	40.07	80	48.7	P	
--					

supplementary information:
 - NF: No Fire
 - NE: No Explosion
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 - NR: No Rupture
 - NS: No Electric shock hazard
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 - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
 - Leakage: visible escape of liquid electrolyte.- Others (please explain)



Temperature Test (26)

Method:

EUT primary is $U=U_n$, $F=F_n$, operated under normal max. load.

Temperatures of parts are measured by thermal couplers, windings are measured by resistance change method.

Measuring place shall be a point close to the heat source.

The test is continued until thermal stable.

Voltage is changed lower or higher tolerance without rest of time.

Result:

26	TABLE: Thermal requirements,						Pass	
	Supply voltage (V)	AC240V	--	--	--	--	—	
	Ambient Tmin (°C)	24.5	--	--	--	--	—	
	Ambient Tmax (°C)	25.1	--	--	--	--	—	
	Max. load	Charge battery	--	--	--	--		
	Model	--	--	--	--	--		
Maximum measured temperature T of part/at::		T (°C)				Allowed Tmax (°C)		
Enclosure of Adaptor		40.2	--	--	--	--	70	
PCB near control IC		36.4	--	--	--	--	105	
Internal wire		31.7	--	--	--	--	55	
Connector		37.6	--	--	--	--	70	
Battery		36.1	--	--	--	--	60	
Enclosure of battery		31.4	--	--	--	--	70	
--								
--								
--								
--								
--								
--								
--								
--								
--								
Supplementary information:								
Temperature T of winding:		t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed Tmax (°C)	Insulation class
--		--	--	--	--	--	--	--



Supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - NR: No Rupture - NS: No Electric shock hazard - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte. - Others (please explain)

Result:

26	TABLE: Thermal requirements,						Pass
	Supply voltage (V)	Power by full Battery	--	--	--	--	—
	Ambient Tmin (°C)	24.6	--	--	--	--	—
	Ambient Tmax (°C)	24.9	--	--	--	--	—
	Max. load	Max. load	--	--	--	--	
	Model	--	--	--	--	--	
Maximum measured temperature T of part/at::		T (°C)					Allowed Tmax (°C)
Enclosure of Adaptor		--	--	--	--	--	70
PCB near Control IC		33.2	--	--	--	--	105
Internal wire		36.3	--	--	--	--	55
Connector		--	--	--	--	--	70
Battery		41.7	--	--	--	--	60
Enclosure of battery		30.3	--	--	--	--	70
Winding of Motor		50.4					70
Enclosure of Motor		45.3					90
Supplementary information:							



Temperature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--

Supplementary information:

- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- NR: No Rupture
- NS: No Electric shock hazard
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)



Imbalanced Charging Test (27)

24	TABLE: Imbalanced Charging Test			P
Model	OCV at start of test, (Vdc)	OCV at charge end by adaptor, (Vdc)	Results	
Battery	31.5	41.6	P	
Remark:41.6V<50.4V				
Supplementary information:				
<ul style="list-style-type: none"> - NF: No Fire - NE: No Explosion - NL: No Leakage - NR: No Rupture - NS: No Electric shock hazard - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain) 				



Dielectric Voltage-Withstand Test (28)

Method:

The test is made while the EUT is still in well-heated condition

Make sure the power switch of the EUT is in ON position.

Thin material can be tested in room temperature.

The test voltage is a.c. of 50 or 60 Hz or d.c. voltage equal to peak value of the a.c. voltage.

Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s.

Insulation breakdown is: Current flows through the insulation rapidly increases in an uncontrolled manner; that is the insulation does not restrict the flow of the current.

Corona discharge or a single momentary flashover is not regarded as insulation breakdown.

A test incorporating reinforced insulation and lower grades insulation (BI, SI), care is taken not to overstress BI or SI.

Where capacitors (X or Y capacitors) are across the insulation, d.c. voltage is recommended for the test.

Discharge resistors shall be disconnected before testing.

Result:

28	Electric strength test		Pass
Test voltage applied between:		Test voltage (V)	Breakdown
input and enclosure		AC1480 60Hz	No
Input and output		AC1480 60Hz	No



Isolation Resistance Test (29)

Method:

The test is made while the EUT is still in well-heated condition

Make sure the power switch of the EUT is in ON position.

Thin material can be tested in room temperature.

The test voltage is d.c. 500 voltage

Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s.

29	TABLE: Insulation resistance measurements	Pass
Insulation resistance R between:		R (M Ω)
		Required R (Ω)
DC input and enclosure	>100 M Ω	50000 Ω
L/N and enclosure	>100 M Ω	50000 Ω
L/N and output	>100 M Ω	50000 Ω

**Vibration test (30)**

30	TABLE: Vibration tests				P
Model	OCV at start of test, (Vdc)	Test frequency (Hz)	Vibration time (h)	Results	
Battery	41.5	7Hz~200Hz~7Hz	15 min	P	
Battery	41.4	7Hz~200Hz~7Hz	15 min	P	
Battery	41.7	7Hz~200Hz~7Hz	15 min	P	
Supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - NR: No Rupture - NS: No Electric shock hazard					

**Shock Test (31)**

31	TABLE: Mechanical tests (batteries)				P
Model	OCV at start of test, (Vdc)	Acceleration (gn)	Number of shocks per half axis	Results	
MB0061	41.6	50gn	3	P	
MB0061	41.5	50gn	3	P	
MB0061	41.5	50gn	3	P	

31	TABLE: Charging Test by adaptor			P
Model	OCV at start of test, (Vdc)	OCV at charge end by adaptor, (Vdc)	Results	
Battery	31.8	41.4	P	

Remark:41.4V<50.4V

Supplementary information:

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- NR: No Rupture
- NS: No Electric shock hazard
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

**Crush Test (32)**

32	TABLE: force test			Pass
Test condition		Result		
14700 N force applied DUT		NF, NE, NL, NR, NS. Damaged the DUT.		
Supplementary information:				
<ul style="list-style-type: none"> - NF: No Fire - NE: No Explosion - NL: No Leakage - NR: No Rupture - NS: No Electric shock hazard - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain) 				

Drop Test (33)

33	TABLE: Drop test				Pass
Model	OCV at start of test, (Vdc)	Cycles	Height (m)	Results	
MB0061	--	Three times	1m	P	
MB0061	--	Three times	1m	P	
MB0061	--	Three times	1m	P	
After 0 °C 3h					
Electric skateboard	--	Three times	1m	P	
Electric skateboard	--	Three times	1m	P	
Electric skateboard	--	Three times	1m	P	
supplementary information:					
<ul style="list-style-type: none"> - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain) 					

**Mold Stress Relief Test (34)**

34	TABLE: Strain relief test			Pass
Test part	Temperature (°C)	Duration (h)	Result	
Enclosure	70	1h	Pass electrical strength	
Notes: Oven temperature shall be 10 K higher than the maximum temperature on the enclosure but not less than 70°C.				
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)				

Result:

34	Electric strength test			Pass
Test voltage applied between:		Test voltage (V)	Breakdown	
input and enclosure		AC1480 60Hz	No	
Input and output		AC1480 60Hz	No	
Method: The test is made while the EUT is still in well-heated condition Make sure the power switch of the EUT is in ON position. Thin material can be tested in room temperature. The test voltage is a.c. of 50 or 60 Hz or d.c. voltage equal to peak value of the a.c. voltage. Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s. Insulation breakdown is: Current flows through the insulation rapidly increases in an uncontrolled manner; that is the insulation does not restrict the flow of the current. Corona discharge or a single momentary flashover is not regarded as insulation breakdown. A test incorporating reinforced insulation and lower grades insulation (BI, SI), care is taken not to overstress BI or SI. Where capacitors (X or Y capacitors) are across the insulation, d.c. voltage is recommended for the test. Discharge resistors shall be disconnected before testing.				

34	TABLE: Insulation resistance measurements			Pass
Insulation resistance R between:		R (MΩ)	Required R (Ω)	
DC input and enclosure		>100 MΩ	50000Ω	
L/N and enclosure		>100 MΩ	50000Ω	
L/N and output		>100 MΩ	50000Ω	
Method: The test is made while the EUT is still in well-heated condition Make sure the power switch of the EUT is in ON position. Thin material can be tested in room temperature. The test voltage is d.c. 500 voltage Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s.				



Motor Overload Test (35)

35	Abnormal Operations and Fault Conditions Test		Pass
Requirement	Result	Remarks	
During the test:			
Fire propagates beyond the EUT?	Yes/No	--	
Molten metal emitted?	Yes/No	--	
Enclosures deform to cause non-compliance with the standard?	Yes/No	--	
After the test:			
Electric strength test on reinforced insulation breakdown?	Yes/No	--	
Electric strength test on Basic insulation breakdown?	Yes/No	--	
SC: Short-circuited; OC: Open-circuited; OL: Over-load; BK: Block; RP: Reverse-polarity; LK: Lock; DC: Disconnect; OVC: Overcharging under Max. available charging voltage or 106% rated voltage; ED: Excessive discharging			
Voltage regulator, power meter, Data Acquisition/Switch Unit , Oscilloscope, Oscilloscope Probe, Digital Micro-ohmmeter, Withstanding Voltage Tester, DC Electrical load;			
35 Abnormal Operations and Fault Conditions Test			Pass
Ambient temperature (°C)		25.1°C	
Comp./ fault	Result / Observation		
Motor Overload	Test voltage: _50.2V_ Duration: _5H53mins_ Fuse or Fuse resistor No: _ _ I/P current (A): _3.85A_ I/P power (W): _0_	<input type="checkbox"/> Become steady, output power / current _____ <input type="checkbox"/> Shut down immediately, and _____ damaged, can't be recovered, repeated ____ times. <input type="checkbox"/> Protected, can be recovered.	<input type="checkbox"/> Fuse opened immediately <input type="checkbox"/> Fuse opened after ____ <input type="checkbox"/> T.F opened after ____ <input type="checkbox"/> see raw data ____ <input checked="" type="checkbox"/> No hazards Winding of motor: 71.7°C Remark: --
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)			

Motor Locked Rotor (36)

36	Abnormal Operations and Fault Conditions Test		Pass
Requirement	Result	Remarks	
During the test:			
Fire propagates beyond the EUT?	Yes / No	--	
Molten metal emitted?	Yes / No	--	
Enclosures deform to cause non-compliance with the standard?	Yes / No	--	
After the test:			
Electric strength test on reinforced insulation breakdown?	Yes / No	--	
Electric strength test on Basic insulation breakdown?	Yes / No	--	
SC: Short-circuited; OC: Open-circuited; OL: Over-load; BK: Block; RP: Reverse-polarity; LK: Lock; DC: Disconnect; OVC: Overcharging under Max. available charging voltage or 106% rated voltage; ED: Excessive discharging			
Voltage regulator, power meter, Data Acquisition/Switch Unit , Oscilloscope, Oscilloscope Probe, Digital Micro-ohmmeter, Withstanding Voltage Tester, DC Electrical load;			
36 Abnormal Operations and Fault Conditions Test			Pass
Ambient temperature (°C)		25.0°C	
Comp./ fault	Result / Observation		
Locked Motor	Test voltage: _50.3V_ Duration: _1h_ Fuse or Fuse resistor No: __ I/P current (A): _Max. 3.83A_ I/P power (W): _0_	<input type="checkbox"/> Become steady, output power / current _____ <input type="checkbox"/> Shut down immediately, and _____ damaged, cannot be recovered, repeated ____ times. <input checked="" type="checkbox"/> Protected, can be recovered.	<input type="checkbox"/> Fuse opened immediately <input type="checkbox"/> Fuse opened after __ <input type="checkbox"/> T.F opened after __ <input type="checkbox"/> see raw data __ <input checked="" type="checkbox"/> No hazards Winding of motor: 64.3°C Remark: --
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)			

**Strain Relief Test (37)**

Pull Location	Test	Force	Observations	N/A	
				Pass	Fail
--	--	156N	No damaged, no breakage, without displacement	--	
--	--	156N	No damaged, no breakage, without displacement	--	
--	--	156N	No damaged, no breakage, without displacement	--	
--	--	26.7N	No damaged, no breakage, without displacement	--	
--	--	26.7N	No damaged, no breakage, without displacement	--	
--	--	26.7N	No damaged, no breakage, without displacement	--	

Remark: No non-detachable accessible cord



Water Exposure Tests (38.1)

Test procedure

For IPX4, the sample is positioned under oscillating spray tubes rotating at nearly±180° from the vertical for 10 minutes. The oscillation rate is two cycles of about360° in 12 seconds. Each surface of the enclosure within the spray arch is to be tested for 1 min/m2, with no less than 5 minutes of total test timeThe flow rate again depends upon the tube size, Withstand voltage test is pass, No harmful effects

IPX4	-For IPX4, the sample is positioned under oscillating spray tubes rotating at nearly±180° from the vertical for 10 minutes. The oscillation rate is two cycles of about360° in 12 seconds. Each surface of the enclosure within the spray arch is to be tested for 1 min/m2, with no less than 5 minutes of total test timeThe flow rate again depends upon the tube size, Withstand voltage test is pass, No harmful effects	No harmful effects	Pass
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)			



Partial immersion (38.2)

Test procedure

The samples were placed in the test tank, the samples was submerged underwater.

The DUT is subjected to immersion in water at a height of about ½ of the vertical height of the scooter.

The duration of the test is 5mins

The water temperature does not differ from that of the equipment by more than 5K.

Evaluation of test results

No liquid entering, Withstand voltage test is pass, No harmful effects

Test results

Sample No.	Test time	Observations	Verdict
2#	5mins	No water entered into the enclosure	Pass

supplementary information:

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- Leakage: visible escape of liquid electrolyte.- Others (please explain)

**Thermal Cycling Test (39)**

39	TABLE: Heating Test					P
Sample	OCV at start of test, (Vdc)	Temperature raise rated(° C/min)	Test temperature (° C)	Duration (min)	Results	
1#	Full battery	5°C/min ± 2 °C/min	60 to -20	6min	P	
1#	Full battery	5 °C/min ± 2 °C/min	60 to -20	6min	P	
1#	Full battery	5 °C/min ± 2 °C/min	60 to -20	6min	P	
1#	Full battery	5 °C/min ± 2 °C/min	60 to -20	6min	P	
1#	Full battery	5°C/min ± 2 °C/min	60 to -20	6min	P	

Supplementary information:
supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
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- Leakage: visible escape of liquid electrolyte.- Others (please explain)

Label Permanence Test (40)

40	TABLE: Marking test			Pass
Location	Checked by	Time	Result	
Label	water	15s	Pass	
Label	petroleum	15s	Pass	



Photo documentation

Photo 1 Over view



Photo 2 Over view



Photo 3 Over view



Photo 4 Over view



Photo 5 Over view



Photo 6 Over view



Photo 7 Over view



Photo 8 Over view





Photo 9 Over view



.....**End of Report**.....