

RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	190514008SZN-001	Original Issued:	25-Jul-2019	Revised: 10-Sep-2019			
	UL 2054 Issue:2004/10/29 Ed:2 Rev:2011/09/14 UL Standard for Safety Household and Commercial Batteries						
Standard(s)	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes – Safety Requirements For Portable Sealed Secondary Cells, And For Batteries Made From Them, For Use In Portable Locations [UL 62133:2017 Ed.2] Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes – Safety Requirements For Portable Sealed Secondary Cells, And For Batteries Made From Them, For Use In Portable Locations [CSA C22.2#62133:2017 Ed.2]						
Applicant	LUXOR WORKSPACES, LLC		Manufacturer	DongGuan Techoss electronic technology Co., Ltd.			
Address	2245N.Delany RD Wau	ıkegan,IL60087	Address	18A,ShiMa JianShe Road, TangXia town Dongguan City, Guangdong, 523710			
Country	USA		Country	CHINA			
Contact	Zach Mundy		Contact	JiangYun Luo			
Phone	847-596-8146		Phone	86-13058168512			
FAX			FAX				
Email	zmundy@luxorfurn.com	<u></u>	Email	cloudy@techoss.cn			

2.0 Product Description					
Product	Li-ion Battery				
Brand name	kwikboost				
Description	The product covered by this report is rechargeable Li-ion battery intended for use as DC power source. the product is equipped with protect device and 18 cell in 6S3P which comply with UL 1642, see section 4.0 components for details. Nominal Voltage: 22.2V				
	Normal charging voltage: 25.2V Normal charging current: 3000mA Max. charging current: 6600mA Normal discharging current: 5000mA End of discharging voltage: 17.4V				
Models	KBEP-BAT				
Model Similarity	NA				
Ratings	22.2V, 6600mAh, 146Wh				
Other Ratings	Ambient temperature: Charge:0 ~ 45°C Discharge: -10 ~ 55°C				
Conditions of Acceptability	The product covered in this report is incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product. (Typical Conditions of Acceptability to be considered for recognized component products follow:) 1. Suitability of the enclosure should be evaluated when installed in the end product. 2. Temperature Testing should be performed on this component when installed in the end product.				

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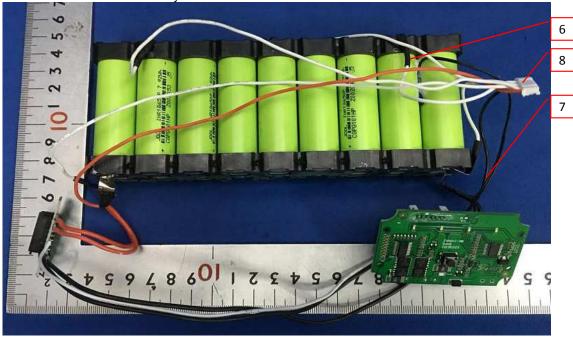
Photo 1 - Overall view of battery





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Photo 3 - Internal view-1 of Battery





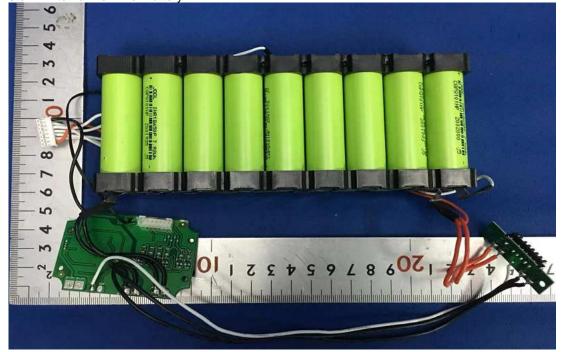


Photo 5 - Front view of PCM

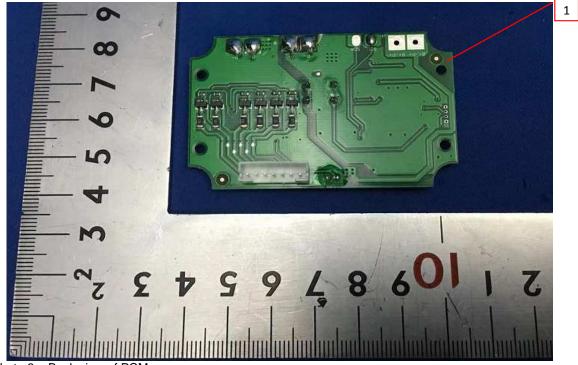


Photo 6 - Back view of PCM

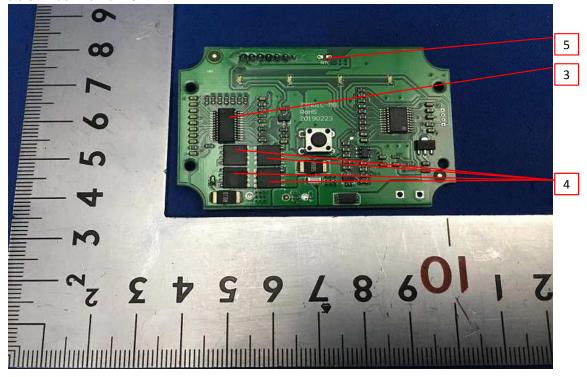


Photo 7 - Front view of Cell block



Photo 8 - Back view of Cell block



4.0 Critical Components Photo # Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark² means conformity³ Shenzhen meiyadi Thickness min. 1.6mm, V-0, 130 5 1 **PCB** Circuit Technology ZXN01C-MB UR °C Co., Ltd **PROSEMI** 6 2 PTC UR Semiconductor, 1206TD-30AS 32Vdc, Ihold: 30A, Itrip: 150A Ltd Overcharge protection voltage: 4.25±0.025V, Over discharge NR 6 3 IC (U3) **CELLWISE** CW1073AAAS protection voltage: 2.7±0.03V, 3Discharging overcurrent detection voltage: 0.1V±0.005V Sowinsemi MOSFET (Q8, 6 Semiconductor, SW100N30D5 $V_{DS} = 30V$, $V_{GS} = \pm 20V$, $I_{d} = 100A$ NR Q9, Q11, Q12) Ltd **DONGGUAN** XINXIANG MF52-103F-Resistance: 10KΩ, B=3435K NTC **ELECTRONICS** UR 6 5 Temperature: 25°C 3435-150L **TECHNOLOGYC** O., LTD **DONGGUAN** LIANCHENG 200°C, V-0 Lian cheng labour 3 PET UR 6 Tape **LABOUR** insurance **INSURANCE** ShenZhen LI XIN 26AWG, 150°C, 3000Vac 3 Wiring **HUI Electronic** 3239 UR 20AWG,150°C, 3000Vac Co., LTD DongGuan **NORDE** Nylon, UL94V0, 105°C, min 3 8 Connector Nylon 9T UR thickness: 6.85mm electronics Co., LTD Dongguan Zhang ABS+PC/V0, Thickness min. 2 Xing Hardware UR 9 Enclosure C6200 54mm Products Co., Ltd. Jiangxi jiudingpower new energy 7 10 Cell INR18650P UR 3.6V, 2200mAh, 7.92Wh technology co., LTD

NOTES:

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¹⁾ Not all item numbers are indicated (called out) in the photos, as their location is obvious.

^{2) &}quot;Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

³⁾ Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

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5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

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6.0 Critical Features

<u>Recognized Component</u> - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

<u>Listed Component</u> - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

<u>Unlisted Component</u> - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

<u>Critical Features/Components</u> - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

- 1. Spacing NA
- Mechanical Assembly Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
- 3. Corrosion Protection NA
- 4. Accessibility of Live Parts NA
- 5. Grounding NA
- 6. Polarized Connection NA
- 7. Internal Wiring Refer to Section 4.0, Components No. 4 for details.
- 8. Schematics Refer to Section 7.0, Illustrations No. 2-3 for details.
- 9. Markings The product is marked as follows:
 - manufacturer's name or brand name
 - model number
 - electrical ratings (input voltage, nominal voltage, capacity or watt-hour).
 - manufature date.

Refer to Section 7.0, Illustration No.1 for details.

- 10. Cautionary Markings Refer to Section 7.0, Illustrations No. 1 for details.
- Installation, Operating and Safety Instructions Safety Instructions for use of this products are provided by the manufacturer.

7.0 Illustrations

Illustration 1 - Marking

kwikboost

KBEP-BAT

6600mAh, 22.2Vdc, 146Wh Li-ion Battery 190815



5015076

CONFORMS TO UL Std. 2054 CONFORMS TO UL Std. 62133 CERTIFIED TO CSA Std. 62133

Caution: Risk of Fire and Burns.

Do Not Open, Crush, Heat Above 40°C or Incinerate.

Follow Manufacturer's Instructions.

ATTENTION: Risque d'incendie et de brûlures. Ne pas ouvrir, Crush, thermique supérieur à 40°C ou incinérer. Suivez les Instructions du fabricant.

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Note 1: The ETL logo shall not be less than 8 mm in width and in height, the "Intertek" shall not be less than 3 mm in height, the "C", "US" and the control No. "5015076" shall not be less than 2 mm in height, the "CONFORMS TO UL STD. 2054" shall not be less than 1.5 mm in height, the "CM" shall not be less than 1 mm in height.

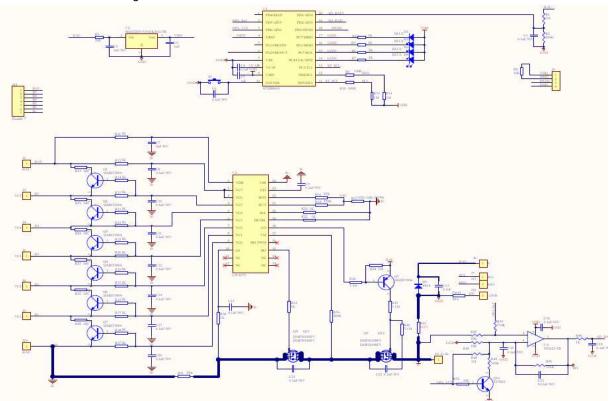
Note 2: For the manufacture date in the marking" 190815",

- "19" represents year.
- "08" represents month.
- "15" represents day.

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7.0 Illustrations

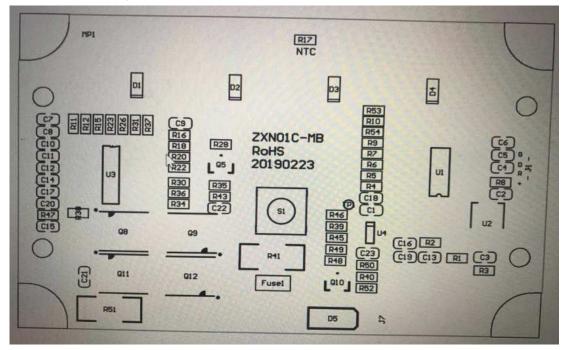
Illustration 2 - Circuit diagram

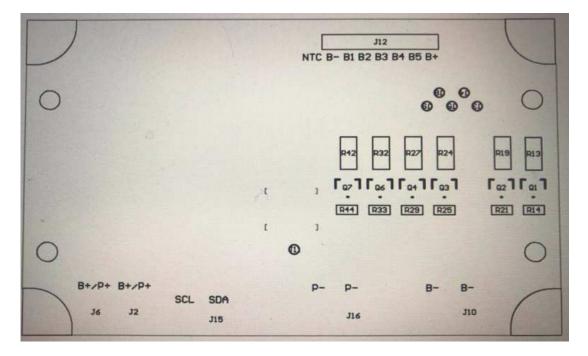


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7.0 Illustrations

Illustration 3 - PCB layout





7.0 Illustrations

Illustration 4 - battery construction

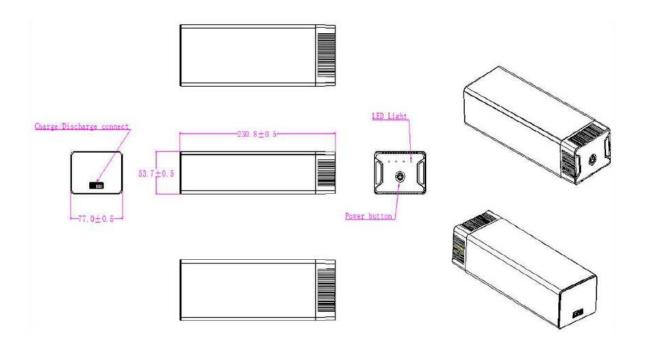


Illustration 5 - battery specification-1

Do not expose to, dispose of the battery in fire.

Do not put the battery in a charger or equipment with wrong terminals connected.

Avoid shorting the battery

Avoid excessive physical shock or vibration.

Do not disassemble or deform the battery pack.

Do not immerse in water.

Do not use the battery mixed with other different make, type, or model batteries.

Keep out of the reach of children, Only use with adult supervision.

7.0 Illustrations

Illustration 6 - battery specification-2

9.2 Charge:

- 9.2.1 Battery pack must be charged in appropriate charger only.
- 9.2.2 Never use a modified or damaged charger.
- 9.2.3 Do not leave battery pack in charger over 24 hours.
- 9.2.4 Charging current: Can not surpass the biggest charging current which in this specification book stipulated.
- 9.2.5 Charging voltage: Does not have to surpass the highest amount which in this specification book stipulated to decide the voltage.
- 9.2.6 Charge temperature: The battery pack must carry on the charge in the ambient temperature scope which this specification book stipulated.
- 9.2.7 Uses the constant electric current and the constant voltage way charge, the prohibition reverse charges. If the battery positive electrode and the cathode meet instead, can damage the battery pack.

9.3 Discharge:

- 9.3.1 The discharging current does not have to surpass this specification book stipulation the biggest discharging current, the over sized electric current electric discharge can cause the battery capacity play to reduce and to cause the battery heat.
- 9.3.2 Electric discharge temperature: The battery pack discharge must carry on in the ambient temperature scope which this specification book stipulated.
- 9.3.3 Over-discharges: After the short time excessively discharges charges immediately cannot affect the use, but the long time excessively discharges can cause the battery the performance, battery function losing. The battery long-term has not used, has the possibility to be able to be at because of its automatic flash over characteristic certain excessively discharges the condition, for prevented excessively discharges the occurrence, the battery should maintain the certain electric quantity.

9.4 Disposal:

Regulations vary for different countries. Dispose of in accordance with local regulations.

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8.0 Test Summary **Evaluation Period** 14-May-2019 to10-Jul-2019 Project No. 190514008SZN Z190514008-001 Sample Rec. Date 14-May-2019 Condition Prototype Sample ID Intertek Testing Services Shenzhen Ltd. Longhua Branch **Test Location** 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China Test Procedure Testing Lab Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. The following tests were performed: UL 2054, Issue:2004/10/29 UL 62133/CAN/CSA-C22.2 No. 62133:17 Second Edition Ed:2 Rev:2011/09/14 UL Issue:2017/09/05 UL Standard Standard for Safety Test Description Household and Commercial for Safety for Secondary Cells **Batteries** and Batteries / Clause / Clause Short-Circuit Test 9 Abnormal Charging Test 10 Abusive Overcharge Test 11 --Forced-Discharged Test 12 --**Battery Pack Component Temperature Test** 13A Battery Pack Surface Temperature Test 13B 250N Steady Force Test 19 Mold Stress Relief Test 20 --**Drop Impact Test** 21 --8.0 Test Summary 14-Aug-2019 to 6-Sep-2019 Project No. 190826020SZN Evaluation Period Z190826020-001 Condition Prototype Sample ID Sample Rec. Date 26-Aug-2019 to 021 Intertek Testing Services Shenzhen Ltd. Longhua Branch **Test Location** 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China Test Procedure Testing Lab Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. The following tests were performed: UL 62133/CAN/CSA-C22.2 No. UL 2054, Issue:2004/10/29 62133:17 Second Edition Ed:2 Rev:2011/09/14 UL Issue:2017/09/05 UL Standard Standard for Safety **Test Description** Household and Commercial for Safety for Secondary Cells Batteries and Batteries / Clause / Clause Moulded case stress at high ambient 8.2.2 temperature (battery) External short circuit (battery) 8.3.2 Free fall 8.3.3 --Over-charging of battery 8.3.6 8.1 Signatures A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0. Completed by: Terrance Yang Reviewed by: Frank Li Title: Engineer Title: Assistant Manager Terromoe Yong Frank Li Signature: Signature:

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9.0 Correlation Page For Multiple Listings The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program. LUXOR WORKSPACES, LLC **BASIC LISTEE** Address 2245N.Delany RD Waukegan,IL60087 USA Country **Product** Li-ion Battery MULTIPLE LISTEE 1 None Address Country **Brand Name ASSOCIATED** MANUFACTURER Address Country MULTIPLE LISTEE 1 MODELS **BASIC LISTEE MODELS** MULTIPLE LISTEE 2 None Address Country **Brand Name** ASSOCIATED MANUFACTURER Address Country MULTIPLE LISTEE 2 MODELS **BASIC LISTEE MODELS** MULTIPLE LISTEE 3 None Address Country **Brand Name** ASSOCIATED MANUFACTURER Address Country

MULTIPLE LISTEE 3 MODELS

BASIC LISTEE MODELS

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10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issue by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued after signed Certification Agreements have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

- 1. Conformance of the manufactured product to the descriptions in this Report.
- 2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
- 3. Manufacturing changes.
- 4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

- 1. Correct the non-conformance.
- Remove the ETL Mark from non-conforming product.
- 3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:

Intertek Testing Services Shenzhen Ltd. Longhua Branch

ETL Component Evaluation Center

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China

Shenzhen, China

Attn: Joey Kuang

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

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The manufacturing and Production Tests
The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests
None

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12.0 Revision Summary						
The following changes are in compliance with the declaration of Section 8.1:						
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change		
10-Sep-2019	Terrance Yang Terrance Yang	1.0	-	Change description of standard from "UL 2054 Issue:2004/10/29 Ed:2 Rev:2011/09/14 UL Standard for Safety Household and Commercial Batteries" to "UL 2054 Issue:2004/10/29 Ed:2 Rev:2011/09/14 UL Standard for Safety Household and Commercial Batteries Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes – Safety Requirements For Portable Sealed Secondary Cells, And For Batteries Made From Them, For Use In Portable Locations [UL 62133:2017 Ed.2] Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes – Safety Requirements For Portable Sealed Secondary Cells, And For Batteries Made From Them, For Use In Portable Locations [CSA C22.2#62133:2017 Ed.2]".		
40002602057N	Frank Li	7.0	1	Updated the ETL logo from ETLus to cETLus in the marking due to add UL 62133 and CAN/CSA-C22.2 No. 62133:17 tests for battery		
190826020SZN	Frank Ci	8.0	-	Added UL 62133 and CAN/CSA-C22.2 No. 62133:17 tests item		
		I	<u> </u>	<u> </u>		