



## Safety Data Sheets

**Name of Goods:** Lithium Battery

**Commissioner:** Guangdong Shangrila Networking Technology Co., Ltd

**GUANGDONG UTL CO., LTD.**

## Safety Data Sheet (SDSs)

|                                                                                      |                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of goods</b>                                                                 | Lithium Battery                                                                                                                                                                                            |
| <b>Type/Model</b>                                                                    | ORORO-18650                                                                                                                                                                                                |
| <b>Ratings</b>                                                                       | DC Output: 7.4Vdc/2.5A Max (4890mAh/36.186Wh)<br>USB Output: 5Vdc/2.2A Max (5200mAh/26Wh)<br>TYPE-C Input: 5Vdc/2.2A Max<br>Rated Capacity: 7.4Vdc/ 2.5A Max (5200mAh/38.48Wh)                             |
| <b>Commissioned by</b>                                                               | Guangdong Shangrila Networking Technology Co., Ltd                                                                                                                                                         |
| <b>Commissioner address</b>                                                          | Shangrila View, No.1 Dongke Rd, Dongcheng Dist, Dongguan, Guangdong, 523007, CHINA                                                                                                                         |
| <b>Manufacturer</b>                                                                  | Guangdong Greenway Technology Co., Ltd                                                                                                                                                                     |
| <b>Manufacturer address</b>                                                          | Tongsha New Industry Park, Dongcheng Street, Dongguan City, Guangdong Province, P.R. China                                                                                                                 |
| <b>Factory</b>                                                                       | Guangdong Greenway Technology Co., Ltd                                                                                                                                                                     |
| <b>Factory address</b>                                                               | Tongsha New Industry Park, Dongcheng Street, Dongguan City, Guangdong Province, P.R. China                                                                                                                 |
| <b>Inspection according to</b>                                                       | OSHA GHS 《A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals》<br>IATA DGR 《Dangerous Goods Regulations》<br>IMO IMDG CODE 《INTERNATIONAL MARITIME Dangerous Goods CODE》 |
| <div> <div>Receiving date: 2020-04-02</div> <div>Issue date: 2020-04-07</div> </div> |                                                                                                                                                                                                            |

Approved by:

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# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

## Product Identifier

Product name: Lithium Battery

Model: ORORO-18650, DC Output: 7.4Vdc/2.5A Max (4890mAh/36.186Wh)

USB Output: 5Vdc/2.2A Max (5200mAh/26Wh)

TYPE-C Input: 5Vdc/2.2A Max

## Other means of identification

Synonyms:

## Recommended use of the chemical and restrictions on use

Recommended Use:

Uses advised against:

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- c) Do not short-circuit a cell or battery. Do not store cells or batteries haphazardly in a box or drawer. where they may short-circuit each other or be short-circuited by other metal objects.
- d) Do not remove a cell or battery from its original packaging until required for use.
- e) Do not subject cells or batteries to mechanical shock.
- f) In the event of a call leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected areas with copious amounts of water and seek medical advice.
- g) Do not use any charger other than that specifically provided for use with the equipment.
- h) Observe the plus(+) and minus(-) marks on the cell, battery and equipment and ensure correct use.
- i) Do not use any cell or battery which is not designed for use with the equipment.
- j) Do not mix cells of different manufacturer, capacity, size or type within a device.
- k) Battery usage by children should be supervised.
- l) Seek medical advice immediately if a cell or a battery has been swallowed.
- m) Always purchase the battery recommended by the device manufacturer for the equipment.
- n) Keep cells and batteries clean and dry.
- o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- q) Do not leave a battery on prolonged charge when not in use.
- r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- s) Retain the original product literature for future reference.
- t) Use only the cell or battery in the application for which it was intended.
- u) When possible, remove the battery from the equipment when not in use.
- v) Dispose of properly.

## Details of the Manufacturer of the safety data sheet:

Name: Guangdong Greenway Technology Co., Ltd

Address: Tongsha New Industry Park, Dongcheng Street, Dongguan City, Guangdong Province, P.R. China

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Telephone number of the supplier: +86-769-2728-2088

Fax: N/A

Postcode: 523127

E-mail address: lucy@greenway-battery.com

**Emergency telephone number**

**Company Emergency Phone Number:** N/A

## 2. HAZARDS IDENTIFICATION

### **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

### **Classification of the substance or mixture**

Classification according to GHS

Signal word: Danger

Pictogram:



### **ACUTE TOXICITY-ORAL**

Hazard category: 3

Hazard statement: Toxic if swallowed

Prevention: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: If swallowed: Immediately call a poison center/doctor.

Reference to supplemental first aid instruction.

Rinse mouth.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations

### **ACUTE TOXICITY-DERMAL**

Hazard category: 3

Hazard statement: Toxic in contact with skin.

Prevention: Wear protective gloves/protective clothing

Response: If on skin: Wash with plenty of water

Call a Poison center or doctor/physician if you feel unwell.

Reference to supplemental first aid instruction.

Take off immediately all contaminated clothing and wash it before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations

### **SKIN CORROSION/IRRITATION**

Hazard category: 1B

Hazard statement: Causes severe skin burns and eye damage.

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Prevention: Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protective/face.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Reference to supplemental first aid instruction.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations.

#### **SENSITIZATION-SKIN**

Hazard category: 1A

Hazard statement: May cause an allergic skin reaction.

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response: If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage:

Disposal: Dispose of contents/container in accordance with local/national regulations.

#### **EXPLOSIVES (CONTINUED)**

Hazard category: Division 1.3

Hazard statement: Explosive; fire, blast or projection

Prevention: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Response: In case of fire: evacuate area. Explosion risk in case of fire. Do NOT fight fire reaches explosives.

Storage: Store in accordance with local/regional/national/international regulations.

Disposal: Dispose of contents/container in accordance with local/national regulations.

#### **FLAMMABLE SOLIDS**

Hazard category: 2

Hazard statement: Flammable solid.

Prevention: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Response: In case of fire: Use to extinguish.

Disposal: Dispose of contents/container in accordance with local/national regulations.

#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other information**

No information available.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical characterixation: Mixtures**

##### **Description:**

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Product: Consisting of the following components

| Common Chemical Name                  | Chemical Formula                                      | Concentration (%) | CAS Number  |
|---------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Cobalt Lithium Manganese Nickel Oxide | $\text{LiNi}_x\text{Co}_y\text{Mn}_{1-x-y}\text{O}_2$ | 38                | 182442-95-1 |
| Graphite                              | $\text{C}_{24}\text{X}_{12}$                          | 21                | 7782-42-5   |
| Acetylene Black                       | C                                                     | 1                 | 1333-86-4   |
| Carbonate, Methyl Ethyl               | $\text{C}_4\text{H}_8\text{O}_3$                      | 12                | 623-53-0    |
| Lithium Hexafluorophosphate           | $\text{LiPF}_6$                                       | 3                 | 21324-40-3  |
| Copper                                | Cu                                                    | 18.5              | 7440-50-8   |
| Nickel                                | Ni                                                    | 1                 | 7440-02-0   |
| Aluminum                              | Al                                                    | 5.5               | 7429-90-5   |

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

## 4. FIRST-AID MEASURES

### **First aid measures**

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Test symptomatically

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### **Specific Hazards Arising from the Chemical**

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Formation of toxic gases is possible during heating or case of fire.

In case of fire, the following can be released:

Carbon monoxide (Co)

Carbon dioxide

Other irritating and toxic gases.

### **Hazardous Combustion Products**

Carbon oxides.

Explosion Date

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device.

Wear suitable protective clothing and eye/face protection.

### **Special hazards arising from the substance or mixture:**

Battery may burst and release hazardous decomposition products when exposed to a fire situation.

Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C), When damaged or abused (e.g. mechanical damage or electrical overcharging ); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

### **Environmental Precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes

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and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The Product is not explosive.

### **Conditions for safe storage, including any incompatibilities**

If the Lithium-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium-ion Polymer Battery Periodically.

3 months: -10°C~ +40°C, 45 to 85% RH

And recommended at 0°C~+35°C for long period storage.

The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.

The voltage for a long time storage shall be 3.7V~8.4V range.

Do not storage Lithium-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose Lithium-ion Polymer Battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

Keep ignition sources away- Do not smoke.

Store in cool, dry and well-ventilated place.

**Incompatible Products** None known.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **Control parameters**

|                                                                         |
|-------------------------------------------------------------------------|
| Ingredients with limit values that require monitoring at the workplace: |
|-------------------------------------------------------------------------|

|                                                   |
|---------------------------------------------------|
| 182442-95-1 Cobalt Lithium Manganese Nickel Oxide |
|---------------------------------------------------|

|              |                       |
|--------------|-----------------------|
| TLV(USA)     | 0.02mg/m <sup>3</sup> |
| MAK(Germany) | 0.1mg/m <sup>3</sup>  |

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### **Appropriate engineering controls**

**Engineering Measures** Showers

Eyewash stations

Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible Exposure limits. Ensure or adequate ventilation.

### **Individual protection measures, such as personal protective equipment**

**Eye/Face Protection:**

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**Tightly sealed goggles****Body protection:**

Protective work clothing.

**Skin protection:****Protective gloves****Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is preparation of several substances, the resistance of the glove material can not to be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by manufacturer of the Protective gloves and has to be observed.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good Industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                              |                       |                               |
|----------------------------------------------|-----------------------|-------------------------------|
| Physician<br>State                           | Form: Prismatic shape |                               |
|                                              | Color: Black          |                               |
|                                              | Odour: Not            |                               |
|                                              | Odor Threshold: Not   |                               |
| Change in condition:                         |                       |                               |
| pH, with indication of the concentration     |                       | Not determined.               |
| Melting Point/freezing point                 |                       | Not determined.               |
| Initial boiling point and Boiling range:     |                       | Not determined.               |
| Flash Point                                  |                       | Not determined.               |
| Evaporation rate                             |                       | Not determined.               |
| Flammability (solid, gas)                    |                       | Not determined.               |
| Upper/lower flammability or explosive limits |                       | Not determined.               |
| Vapor Pressure:                              |                       | Not determined.               |
| Vapor Density:                               |                       | Not determined.               |
| relative density:                            |                       | Not determined.               |
| Solubility in Water:                         |                       | Not determined.               |
| Solubility in other solvents                 |                       | Not determined.               |
| n-octanol/water partition coefficient        |                       | Not determined.               |
| Auto-ignition temperature                    |                       | Product is not self-igniting. |

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|                           |                                            |
|---------------------------|--------------------------------------------|
| Decomposition temperature | Not determined.                            |
| Odour threshold           | Not determined.                            |
| Evaporation rate          | Not determined.                            |
| Viscosity                 | Not determined.                            |
| Other Information         | No further relevant information available. |

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage)

**Chemical stability:** Stable Under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

LD/LC50 values relevant for classification:

Not available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

## 12. Ecological information

### **Toxicity:**

Aquatic toxicity:

No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulation potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

### **Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

### **Land transport**

ADR/RID class: Not regulated.

UN-Number: UN3480 or UN3481.

### **Maritime transport**

IMDG Class: Class 9.

UN Number: UN3480 or UN3481.

Marine pollutant: No

### **Air transport**

ICAO/IATA Class: Class 9

UN/ID Number: UN3480 or UN3481.

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Transport/Additional information: Not restricted goods according to the above specifications.

The Lithium-ion Battery had been tested according to the requirements of the UN manual of tests and Criteria, Part III, subsection 38.3;

The Lithium ion batteries according to Section II /Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the Dangerous Goods regulations 61st Edition may be transported.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

Meets requirements of DOT Special Provision 188 to be transported as non-dangerous goods

Meets the requirements of 49CFR173.185 to be transported as non-dangerous goods for road, rail, air, and vessel (Effective August 6, 2014 per HM224F)

The package must be handled with care and that a flammability hazard exists if the package is damaged;

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

### **Regulatory information**

| CAS NO.     | EU<br>(EINECS) | US<br>(TSCA) | Japan<br>(ENCS) | Canada<br>(DSL/<br>NDSL) | Australia<br>(AICS) | Korea<br>(ECL) | China<br>(IECSC) |
|-------------|----------------|--------------|-----------------|--------------------------|---------------------|----------------|------------------|
| 182442-95-1 | Listed         | Not listed   | Not listed      | NDSL                     | Not listed          | Not listed     | Not listed       |
| 7429-90-50  | Listed         | Listed       | Listed          | DSL                      | Listed              | Listed         | Listed           |
| 24937-79-9  | Listed         | Listed       | Listed          | DSL                      | Listed              | Listed         | Listed           |
| 7782-42-5   | Not listed     | Listed       | Not listed      | DSL                      | Listed              | Listed         | Listed           |
| 7440-50-8   | Not listed     | Listed       | Not listed      | DSL                      | Listed              | Listed         | Listed           |
| 1333-86-4   | Listed         | Listed       | Listed          | DSL                      | Listed              | Listed         | Listed           |
| 21324-40-3  | Listed         | Not listed   | Not listed      | Not listed               | Not listed          | Not listed     | Listed           |
| 7439-89-6   | Listed         | Listed       | Not listed      | NDSL                     | Not listed          | Not listed     | Not listed       |
| 9003-07-0   | Listed         | Listed       | Listed          | DSL                      | Listed              | Listed         | Listed           |

**Chemical safety assessment** A Chemical Safety Assessment has not been carried out

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### **Relevant Phrases:**

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

## Photos



Figure 1 Overall view I of battery

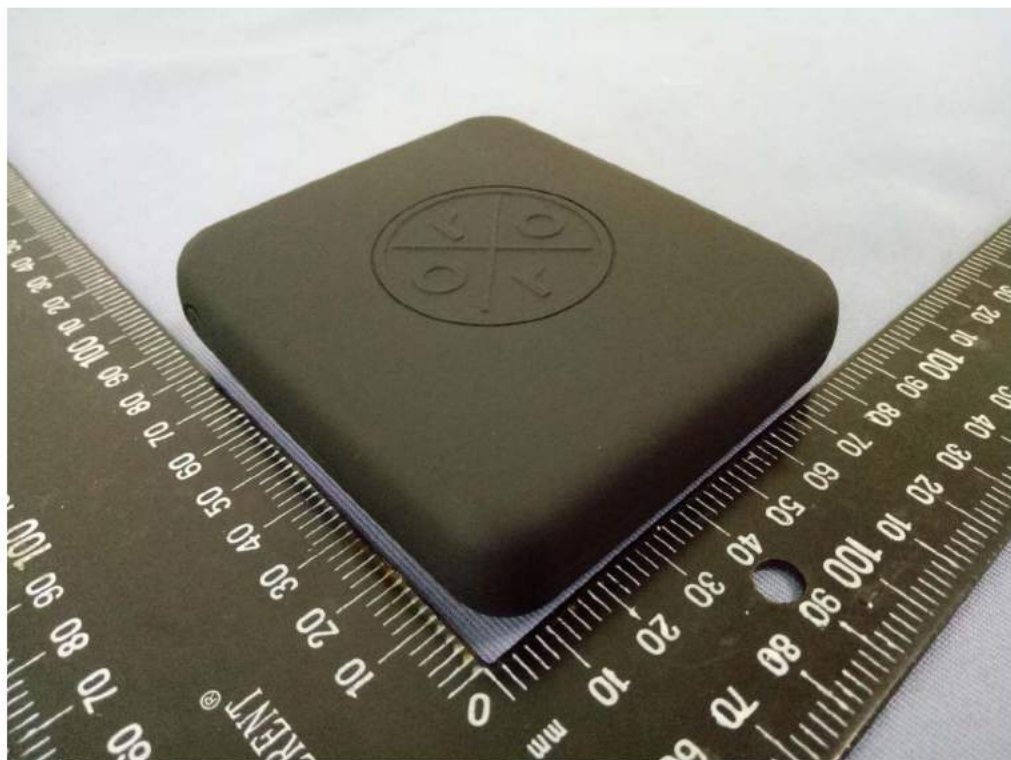


Figure 2 Overall view I of battery

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