

**TEST REPORT**  
**UL 2054**  
**STANDARD FOR SAFETY**  
**Household and Commercial Batteries**

<b>Report Number</b> .....	RLT2405038-04
<b>Date of issue</b> .....	May 17, 2024
<b>Testing Laboratory</b> .....	Rhenish-Lab Certification & Testing (Shenzhen) Co.,Ltd.
<b>Testing location</b> .....	101, Building B, Bailu Plaza, No.48, Gonghe Industrial Road, Gngle, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong, China
<b>Applicant's name</b> .....	Dongguan Baochenghui electronic technology Co., LTD
<b>Address</b> .....	Room 602, Building 3, No.4 West First Street, Wusha Xingfa South Road, Chang 'an Town, Dongguan City, Guangdong Province, China
<b>Test specification:</b>	
<b>Standard</b> .....	UL 2054:2021 Ed.3+R:10March, 2022
<b>Test procedure</b> .....	UL test report
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form(s) Originator</b> .....	UL 2054 _ Ed.03
<b>Master TRF</b> .....	January 01, 2022
<b>Test item description</b> .....	Magnetic wireless power bank
<b>Trade Mark</b> .....	N/A
<b>Manufacturer</b> .....	Dongguan Baochenghui electronic technology Co., LTD
<b>Manufacturer address</b> .....	Room 602, Building 3, No.4 West First Street, Wusha Xingfa South Road, Chang 'an Town, Dongguan City, Guangdong Province, China
<b>Model/Type reference</b> .....	F19P, F18, F18S, F19, F19S, F20, F20S, F21, F21S, F22, F22S, F23, F23S
<b>Ratings</b> .....	Input: 5V==, 2.0A, 10W
<b>Description</b> .....	The product covered by this report are magnetic wireless power bank the interior contains a lithium battery.
<b>Model Similarity</b> .....	Model difference Only the model name and color is different, the others are exactly the same, and all the tests are performed on F19P
<b>Tested by (Engineer)</b> .....	Sam Deng
<b>Approved by (Supervisor)</b> .....	Daniel Wan



<b>Critical Features</b>	
<p><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.</p>	
<p><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.</p>	
<p><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.</p>	
<p><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.</p>	
<p><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.</p>	
<ol style="list-style-type: none"><li>1. <u>Measurements</u> - All dimensions indicated in the body of this report are approximations unless otherwise indicated.</li></ol>	
<ol style="list-style-type: none"><li>2. <u>Mechanical Assembly</u> - 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.</li></ol>	
<ol style="list-style-type: none"><li>3. <u>Corrosion Protection</u> - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.</li></ol>	
<ol style="list-style-type: none"><li>4. <u>Accessibility of Live Parts</u> - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described.</li></ol>	
<ol style="list-style-type: none"><li>5. <u>Grounding</u> - N/A</li></ol>	
<ol style="list-style-type: none"><li>6. <u>Polarized Connection</u> - This product is not provided with a polarized power supply connection.</li></ol>	
<ol style="list-style-type: none"><li>7. <u>Internal Wiring</u> - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets.</li></ol>	
<ol style="list-style-type: none"><li>8. <u>Markings</u> - The product is marked on a labeling system print on the enclosure as follows Applicant's name or brand name; product name; Model number; Electrical ratings; Date of manufacturer (presented as ww yy, "ww" is week and "yy" is year.);</li></ol>	
<p>Remarks: All letters shall be bold, and the letter height shall be at least 1.6mm.</p>	
11.	<p><u>Cautionary Markings</u> - The following are required:</p> <p>CAUTION: Risk of Fire and Burns. Don't Open, Crush, Heat Above 55°C or Incinerate. Follow Manufacturer's Instructions.</p>

12.	<p><u>Installation, Operating and Safety Instructions</u> - Instructions for installation and use of this product are provided by the manufacturer.</p> <p><b>Hazard Warning</b></p> <p>1 Forbid Disassemble Batteries The battery has protective component and circuit internally to avoid danger. Mishandling such as improper disassembly will destroy its protective function and make it heat, smoke, distort or burning.</p> <p>2 Forbid Short-circuit Batteries Do not touch the plus and minus contacts with metals. Do not put the battery with metal element together in either storage or movement. If the battery is short-circuit, it carries magnified current, which will cause damage and make the battery heat, smoke, distort or burning.</p> <p>3 Forbid heat and burn the battery If heating or burning the battery, it will caused the isolated element in the battery dissolved, protection function stopped or the electrode burning, over heated, which will make the battery heat, smoke, distort or burning.</p> <p>4 To avoid use the battery near the heat Do not use the battery near the fire and stove, or over 55°C, and over heating will cause the battery internal short-circuit and make it heat, smoke, distort or burning.</p> <p>5 Forbid bathing the battery Do not dampen the battery, or even immerse it in the water, which will cause internal protection circuit and its function lost or abnormal chemical reactions, which will lead to heating, smoking, distortion or burning.</p> <p>6 Avoid charging near fire or in the sunlight Otherwise, it will cause internal protection circuit and its function lost or abnormal chemical reactions, which will lead to heating, smoking, distortion or burning.</p> <p>7 Danger in using non-indicated chargers in Charging in abnormal condition, the battery will cause internal protection circuit and its function lost or abnormal chemical reactions, which will lead to heating, smoking, distortion or burning.</p> <p>8 Forbid Damage Battery Do not allow damage the battery with the metals gouged, forged or dropped etc., otherwise, it will cause over-heated, distort, smoke or burning, even in danger.</p> <p>9 Forbid directly welding on the battery Over-heated will cause the isolated element dissolved in the battery and losing protective function its cycle life, even will cause over-heated, distort, smoke or burning.</p> <p>10 Do not touch the leak-out battery The leak-out electrolyte will cause the skin uncomfortable. If it drops into eyes, do not rub the eyes but wash in time, and go to hospital for treatment.</p>
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**CAUTION:**

- Please read the battery instructions and the label on its surface before use.
- When in use, the battery shall be kept out of heat, high voltage and avoided children's touching. Do not drop the battery.
- Do not touch contacts together. Do not demolish or assembly the battery by yourself. Do not put the battery in the damp place to avoid danger.

- Well disposed the disused battery. Do not put it into fire or water.
- The battery shall be prevented to be exposed in effulgence so as not to cause over-heated, distort, smoke and weaken its performance and cycle life.
- When Children use the battery, they should be under their parents' instructions and superintend in use.
- Battery should keep out of the place where children in reach. Prevent children taking the battery out of the charger or the cellular phone to play.
- To avoid the leak-out liquid be exposed to the skin or clothes. If touched, please wash by clean water so as not to cause the skin uncomfortable
- Risk of Fire and Burns. Do Not Open, Crush, Heat Above 55°C or Incinerate. Follow Manufacturer's Instructions.
- Handle with care.
- Avoid moisture.
- Mishandling of the battery will cause burn hazard, fire hazard, explosion hazard.
- The battery will be replaced by manufacturer or specialized persons.

## 4.2 Transportation

Batteries should be packed in boxes for transportation at half charge (30%-50% charge). In the process of transportation, it should prevent violent vibration, impact or extrusion, and prevent sun and rain. It should be applicable to the transportation of ordinary vehicles such as cars, trains, ships and planes.

## 5. Storage and shelf life

The battery should be stored in a clean, dry and ventilated room with the ambient temperature of -20 ° C to 45 ° C and the relative humidity of the battery should not be greater than 75%. The battery should be kept away from corrosive substances and fire and heat sources.

From the date of storage, the battery storage period is 12 months, the products beyond the storage period must be re-inspected batch by batch. The goods can only be delivered to the ordering party after the inspection is qualified, and the unqualified products will be inspected again according to the batch of products. If the product is still unqualified, it will be disposed by the ordering party.

TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model <sup>1</sup>	Technical data	Mark(s) of conformity <sup>2</sup>
Internal wire	SHENZHEN XINSUN ELECTRIC CO LTD	2464	Min. 20AWG, 80°C, 300V	UL recognized
Cell	JIANGXIDONGTENGLIT HIUMCO.LTD	126280	3.85Vdc, 10000mAh	UL recognized
PCB	Various	Various	V-0, 130°C, Thickness min: 1.2mm	UL recognized
IC	ABLIC	8205A	VDS: 20V, 8 Pin TSSOP	Tested with appliance

NOTES:

1) "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.

2) 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.

## Testing Considerations:

Possible test case verdicts:

- test case does not apply to the test object..... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Date of receipt of test item..... : 2024-05-06

Date (s) of performance of tests..... : From 2024-05-06 to 2024-05-16

The following tests were performed:

Test Description	UL 2054:2021 Ed.3+R:10Mar2022	Verdict
Short-Circuit Test	11	P
Abnormal Charging Test	12	P
Abusive Overcharge Test	13	P
Forced-Discharge Test	14	P

**Attachment : Photodocument**

Photo

Description: Overall view



Photo

Description: Overall view



Photo

Description: Overall view



Photo

Description: Internal view



Description: Internal view



Description: Internal view



Additional model:

Photo

Description: Overall view



Photo

Description: Overall view



-- End of report --