



TEST REPORT

Interpretation for METI Ordinance of Technical Requirements (H26.04.14) Appendix 9 : Lithium ion secondary batteries

Report Reference No.....: ZKT-2209136771S

Date of issue.....: Sep. 20, 2022

Total number of pages..... 22

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: Shenzhen Cager Digital Technology Co., Ltd

Address.....: 3F, 5F, 19#, Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen

Test specification:

Standards.....: Interpretation for METI Ordinance of Technical Requirements (H26.04.14) Appendix 9 : Lithium ion secondary batteries

Test procedure.....: N/A

Non-standard test method.....: N/A

Test Report Form No.....: TRF-EL-067_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF.....: Dated: 2020-01-06

This device described above has been tested by ZKT. And it is applicable only to the tested sample identified in the report.

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Test item description.....: Power bank

Trade Mark.....: N/A

Manufacturer.....: Shenzhen Cager Digital Technology Co., Ltd
3F, 5F, 19#, Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen

Model/Type reference.....: W100PD

Ratings.....: TYPE-C/Lightning Input: 5V/2A,9V/2A;12V/1.5A (18W Max)
TYPE-C/Lightning Output: 5.0V±0.25V/2A, 9.0V±0.5V/2.22A, 12.0V±0.6V/1.67A, 20W (MAX)
USB-A Output: 5V±0.25V/2A; 5.0V±0.25V/4.5A, 9.0V±0.5V/2A, 12.0V±0.6V/1.5A, 22.5W (MAX)
Wireless Output: 5V/1A;7.5V/1A;9V/1.1A;9V/1.66A, 15W(MAX)
Battery capacity: 3.85V, 10000mAh, 38.5Wh



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**
Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Date of Test.....: Aug. 22, 2022 - Sep. 20, 2022

Tested by (name + signature).....: Peter Huang

Reviewed by (name + signature).....: Simon Gong

Approved by (name + signature).....: Awen He





Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Power bank

Model: W100PD

**Rating: Input: TYPE-C/Lightning Input: 5V/2A,9V/2A;12V/1.5A
(18W Max)**

**TYPE-C Cable Output: 5.0V±0.25V/2A, 9.0V±0.5V/2.22A, 12.0V
±0.6V/1.67A, 20W (MAX)**

TYPE-C Cable Input: 5V/2A, 9V/2A, 12V/1.5A

**USB-A Output: 5V±0.25V/2A; 5.0V±0.25V/4.5A, 9.0V±0.5V/2A, 12.0V
±0.6V/1.5A, 22.5W (MAX)**

Wireless Output: 5V/1A;7.5V/1A;9V/1.1A;9V/1.66A, 15W(MAX)

Battery capacity: 3.85V, 10000mAh, 38.5Wh

Manufacturer: Shenzhen Cager Digital Technology Co., Ltd

CAUTION:

- Do not disassemble or modify
- Do not short-circuit
- Do not dispose in fire
- Do not expose to high temperature



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Power bank

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**USB-A Output: 5V±0.25V/2A; 5.0V±0.25V/4.5A, 9.0V±0.5V/2A, 12.0V
±0.6V/1.5A, 22.5W (MAX)**

Wireless Output: 5V/1A;7.5V/1A;9V/1.1A;9V/1.66A, 15W(MAX)

Battery capacity: 3.85V, 10000mAh, 38.5Wh

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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)

Testing..... :

Date of receipt of test item..... : 2022-08-22

Date (s) of performance of tests..... : 2022-08-22 - 2022-09-20

General remarks:

The test results presented in this report relate only to the object tested.

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Throughout this report a point is used as the decimal separator.

**General product information:**

This Power bank is constructed with one lithium-ion cell, and has overcharge, over-discharge, over current and short-circuits proof circuit.

The Power bank mainly consists of:

- one cell (1S1P)
- PCM (protective circuit module)
- Enclosure
- Input port (custom terminal), output (custom terminal)

Dimension: 115.3mm x 71.8mm x 21mm

Weight: approx. 214.3g

Type classification

Factor	Classification
Shape of secondary cell	Prismatic
Type of electrolyte in secondary	Liquid state
Upper limit charge voltage of secondary cell	4.4V
Weight of secondary battery	125.9g
Number of battery blocks	1S1P
Overcharge protection	Controlled by secondary battery
Uses	For electronic equipment
Type of secondary battery	Those designed to fix to appliances by soldering or other joining methods so that it cannot be easily removed, or those having other special construction

The main features of this model are shown as below:

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
W100PD	10000mAh	5V	2000mA	2000mA	2000mA	4500mA	12V	--

The main features of this cell within the battery pack shown as below:

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
136074	10000mAh	3.85V	2000mA	2000mA	5000mA	5000mA	4.4V	2.75V

Summary of Testing:

The battery pack is evaluated and tested in this test report according to DENAN appendix 9.

The cell is also evaluated and tested in this test report according to DENAN appendix 9.

All model's function, software and electric circuit are the same, only with a product color and model named and appearance different.

List of Attachments:

Appendix 1: 5 pages of Photo Documentation

Attachment 2: 1 page of Type Classification

Testing location:

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China



1.	Basic Design		P
1.(1)	Insulation and Wiring		P
	a) Insulation Resistance between an accessible metal case (excluding electrical contacts) and positive terminals $\geq 5M\Omega$.	No metal case.	N/A
	b) Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements	See tests of clause 2 and clause 3.	P
	c) Orientation of wiring maintains adequate creepage and clearance distances between conductors. Mechanical integrity of internal connections are sufficient to accommodate conditions of reasonably foreseeable misuse.	See tests of clause 2 and clause 3.	P
1.(2)	Inner Pressure Reduction Mechanism		P
	a) Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition.	Venting mechanism exists on the narrow side of the cell.	P
	b) Encapsulant used to support cells within an outer casing does not cause the battery to overheat during normal operation no inhibit pressure relief.		P
1.(3)	Temperature and current management		P
	The batteries are designed such that abnormal temperature rise conditions are prevented.	Overcharge, over-discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 3.	P
	Means is provided to limit current to safe levels during charge and discharge.	Overcharge, over-discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 3.	P
1.(4)	Terminal contacts	None terminal contacts	N/A
	a) Terminals have a clear polarity marking on the external surface of the battery or be designed with no fear of misconnection.		N/A
	b) The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current.		N/A
	c) External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance.		N/A
	Terminal contacts are arranged to minimize the risk of short circuits.		N/A
1.(5)	Assembly of cells into batteries		P
	Cells used in the battery assembly have closely matched capacities, are of the same design, and are of the same chemistry and same manufacturer.		P



	The battery incorporates separate circuitry to prevent cell reversal from uneven charges as the pack is designed for the selective discharge of a portion of its series connected cells.		N/A
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2.	Intended Use		P
2.(1)	Continuous Low Rate Charge		P
	Fully charged cells are subjected for 28 days to a charge as specified by the manufacturer.	Arrange the test as required.	P
	Ambient temperature when testing	45°C	P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
2.(2)	Vibration		P
	The measured open circuit voltage of the fully charged cells or batteries is within anticipated parameters	See test below.	P
	The cells or batteries are subjected to a vibration sequence with amplitude of 0.76 mm and a total maximum excursion of 1.52 mm. The frequency was varied at the rate of 1 Hz/min between the limits of 10 Hz and 55 Hz. The entire range of frequencies (10 Hz to 55 Hz) and return (55 Hz to 10 Hz) was traversed in 90 min \pm 5 min for each mounting position.	Arrange the test as required.	P
	The vibration was applied in each of three mutually perpendicular directions.	Arrange the test as required.	P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
2.(3)	Battery enclosure test at high ambient temperature	Arrange the test as required.	P
	Fully charged batteries were placed in an air-circulating oven at a temperature of 70°C \pm 2°C for 7 hours. Afterwards, they are removed and allowed to return to room temperature.	70°C	P
	Results: no physical distortion of the battery casing resulting in exposure if internal components.	No physical distortion of the battery casing resulting in exposure if internal components.	P
2.(4)	Temperature cycling		P
	Fully charged cells or batteries were subjected to temperature cycling (+75°C, +20°C, -20°C, +20°C) in forced draught chambers according to the procedure.	Arrange the test as required.	P
	After the fifth cycle, the cells or batteries were stored at 20 \pm 5°C for 7 days prior to examination.	Arrange the test as required.	P
	Results: No fire, no explosion, no leakage	No fire, no explosion, no leakage.	P



3	Reasonably foreseeable misuse		P
3.(1)	External short circuit		P
	a) Fully charged cells were subjected to a short circuit test at $55^{\circ}\text{C} \pm 5^{\circ}\text{C}$.	Arrange the test as required. Each 5pcs cells charged at ambient temperature 55°C and -5°C respectively prepared for the test.	P
	The external resistance did not exceed $80 \pm 20 \text{ m}\Omega$.	See table 3(1).	P
	The cells were tested for 24 h or until the case temperature declined by 20% of the maximum temperature rise.	Tested until the case temperature declined by 20% of the maximum temperature rise.	P
	b) Fully charged batteries were subjected to a short circuit test at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.	Arrange the test as required. Each 5pcs batteries charged at ambient temperature 55°C and -5°C respectively prepared for the test.	P
	The external resistance did not exceed $80 \pm 20 \text{ m}\Omega$.	See table 3(1).	P
	The batteries were tested for 24 h or until the case temperature declined by 20% of the maximum temperature rise.	Tested for 24 hours.	P
	If battery incorporates protective device or protective circuit and the current has stopped, then for one hour after the current stopped.		P
	Results: no fire, no explosion.	No fire, no explosion.	P
3.(2)	Free fall		P
	Fully charged cells or batteries were dropped 3 times from a height of 1.0 m onto a concrete floor.	Arrange the test as required.	P
	Provided that this does not apply to charged batteries weighting more than 7 kg.		P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(3)	Mechanical shock (crash hazard)		P
	a) Fully charged cells or batteries were subjected to a total of three shocks of equal magnitude applied in each of three mutually perpendicular directions.	Arrange the test as required.	P
	b) During the initial 3 milliseconds, the minimum average acceleration was 735 m/s^2 . The peak acceleration was between 1228 m/s^2 and 1716 m/s^2 .		P
	Results: no fire, no explosion, no leakage	No explosion, no leakage.	P
3.(4)	Thermal abuse		P
	Fully charged cells were placed in a gravity or circulating air-convection oven. The oven temperature was raised at a rate of $5^{\circ}\text{C}/\text{min} \pm 2^{\circ}\text{C}/\text{min}$ to a temperature of $130^{\circ}\text{C} \pm 2^{\circ}\text{C}$. The cell remained at that temperature for 10 minutes before the test was discontinued.	Arrange the test as required. Each 5pcs cells charged at ambient temperature 55°C and 10°C respectively prepared for the test.	P
	Results: no fire, no explosion	No fire, no explosion.	P



3.(5)	Crushing of cells		P
	a) Fully charged cells were crushed between two flat surfaces with a hydraulic ram exerting a force of $13 \text{ kN} \pm 1 \text{ kN}$.	Arrange the test as required. Each 5pcs cells charged at ambient temperature 55°C and -5°C respectively prepared for the test.	P
	b) The force was released when		P
	(1) the maximum forces applied	The max. force is achieved when the force applied crushing the cell.	P
	(2) an abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	(3) There was 10% deformation of battery height		N/A
	c) A cylindrical or prismatic cell was crushed with its longitudinal axis parallel to the flat surfaces of the crushing apparatus.	Prismatic cell	P
	A second set of prismatic cells was tested, rotated 90 degrees around their longitudinal axis compared to the first set.	See above	N/A
	Ambient temperature when testing	Ambient temperature 55°C and -5°C respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
3.(6)	Low pressure	Arrange the test as required.	P
	Fully charged cells are placed in a vacuum chamber whose internal pressure was gradually reduced to a pressure equal to or less than 11.6 kPa and held at that value for 6 hours.		P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
3.(7)	Overcharge		P
	A discharged cell was charged from a power supply of $\geq 10 \text{ V}$, at a charging current I_{rec} recommended by the manufacturer for $2.5 C_5/I_{\text{rec}}$ hours or until it reach the test voltage.	Arrange the test as required. Each 5pcs cells overcharged at ambient temperature 55°C and -5°C respectively during the test.	P
	Ambient temperature when testing	Ambient temperature 55°C and -5°C respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
3.(8)	Forced discharge		P
	Discharged cells intended for use in multi-cell applications, were subjected to a reverse charge at $1.0 I_t \text{ (A)}$ for 90 minutes.	Arrange the test as required. Each 5pcs cells forced discharged at ambient temperature 55°C and -5°C respectively during the test.	P
	Ambient temperature when testing	Ambient temperature 55°C and -5°C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P



3.(9)	Cell protection against a high charging rate		P
	Discharged cells were charged at three times the charging current recommended by the manufacturer until	Arrange the test as required. Each 5pcs cells high charged at ambient temperature 55°C and -5°C respectively during the test.	P
	the cells was fully charged, or		P
	A protective devices in the equipment or battery cut off the charge current before the cell became fully charged.	No protective device exists on the cell.	N/A
	Ambient temperature when testing	Ambient temperature 55°C and -5°C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(10)	Forced internal short circuit of cells		P
	Pressed the winding core of charged cell (except when electrolyte is not liquid) by pressing jig under condition that nickel peace was inserted.		P
	Inserted between the positive active material and negative active material		P
	Inserted between the uncoated current collector of positive electrode and the active material coated negative active electrode		P
	Test was stopped when voltage drop of over 50 mV was obtained, or		N/A
	Stopped when the pressure reached 800 N (for prismatic cells, 400N).	400N	P
	Ambient temperature when testing		P
	Number of test sample		P
	Results: no fire, no explosion	No fire, no explosion	P
3.(11)	Function of the overvoltage protection of batteries		P
	The cell block in the battery shall not exceed the upper limited charging voltage at 20 ± 5°C ambient temperature.	Arrange the test as required.	P
	a) For batteries made of a one cell block, the voltage applied to the cell block during charging shall be measured.	1S1P	P
	b) For batteries consisting of a series of two pieces or more of cell blocks, it shall be charged while measuring the voltage of each cell block and at the same time, one cell block shall forcibly be discharged and the voltages of the other cell blocks shall gradually be measured.		N/A



	c) For batteries consisting of a series of connection of two pieces or more of cell blocks, a voltage exceeding the upper limited charging voltage specified in Annex Table 1-2 shall be applied to the cell block while measuring the voltage of each cell block. When the charging stops, the voltage shall be measured.		N/A
	The battery provides with protective circuits	Complied.	P
	Appliance in which battery is installed or battery charger provides with protective circuits.	Complied.	P
3.(12)	Free fall of appliance		N/A
	The charged battery shall be installed to be used, and shall be dropped once a concrete floor or iron plate in a direction considered to most likely affect the battery in a negative manner.		N/A
	An equivalent load shall be applied to the battery		N/A
	Kind of equipment		N/A
	Weight of appliance		N/A
	Applicable standard		N/A
	Height in drop testing		N/A
	Results: no short-circuiting		N/A

4	Labeling		P
	Labeling for batteries shall be provided as below on surface where it can easily be seen but not easily faded.	The label of battery meets the requirements.	P
	Rated voltage	See page 2	P
	Rated capacity	See page 2	P



	TABLE 1: List of Critical Components				P
Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity
Lead wire (for charging and discharging)	SHENZHEN CITY WEIDAXUAN WIRE & CABLE CO LTD	3239	18AWG, Maximum 200°C, 60000Vdc	UL 758	UL E472430
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY(ZHUHA I)LTD	CT02-BAT- V115	V-0, 130°C	UL 796 UL 94	UL E330731
IC (U1)	SHEN ZHEN Chuagnxinwei electronic Technology Co., Ltd.	IP5189T/IP52 09T	I INLIMIT: 2~2.2~2.4A, IOUT: 2.4A, VCC: 4.4~5~6V	--	Tested with appliance
IC (U2)	SHEN ZHEN Chuagnxinwei electronic Technology Co., Ltd.	IP3005A	Working Voltage: 2.1V to 5.5V	--	Tested with appliance
Cell	Yunnan Road Fei New Energy Materials Co.,Ltd.	136074	3.85V, 10000mAh, 38.5Wh	DENAN appendix 9	Tested with appliance
-Positive electrode	Jiangmen Kanhoo Industry Co., Ltd.	TE523	LiNixCoyMn1-x-yO2, Ni: Co: Mn=6: 2: 2	--	--
-Negative electrode	Dalian hongguang lithium industry Co., LTD.	HG-6A	Graphite	--	--
-Separator	Shenzhen pyong electronic technology co., LTD.	0.016mm	PE, Shutdown temperature: 130° C	--	--
-Electrolyte	Dongguan electronics Co., LTD.	BY-1611	LiPF6, EC, DMC, EMC	--	--
Supplementary information:--					



TABLE: 2.(1) Continuous Low Rate Charge Test (Test conducted at 55°C for cell)					P
Model	Recommended Charging Method, CC, CV, or CC/CV	Recommended Charging Voltage Vc, Vdc	Recommended Charging Current Irec, mA	OCV at Start of Test, Vdc	Results
Cell #1	CC and CV	4.40	2000	4.39	P
Cell #2	CC and CV	4.40	2000	4.39	P
Cell #3	CC and CV	4.40	2000	4.38	P
Cell #4	CC and CV	4.40	2000	4.39	P
Cell #5	CC and CV	4.40	2000	4.39	P
Supplementary information: no fire, explosion or leakage observed					

TABLE: 2.(2) Vibration Test (Cell)			P
Model	OCV at Start of Test, Vdc	Results	
Cell #6	4.38	P	
Cell #7	4.39	P	
Cell #8	4.39	P	
Cell #9	4.38	P	
Cell #10	4.38	P	
Supplementary information: no fire, explosion or leakage observed			

TABLE: 2.(2) Vibration Test (Battery Pack)			P
Model	OCV at Start of Test, Vdc	Results	
Battery #1	5.03	P	
Battery #2	5.08	P	
Battery #3	5.09	P	
Battery #4	5.06	P	
Battery #5	5.10	P	
Supplementary information: no fire, explosion or leakage observed			



TABLE: 3.(1) External Short Circuit Test (Precondition at test highest temperature 55°C for cell)					P
Model	Ambient (At 55°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise-ΔT, °C	Results
Cell #11	55.0	4.37	85	103.7	P
Cell #12	55.0	4.38	86	105.5	P
Cell #13	55.0	4.36	89	102.6	P
Cell #14	55.0	4.35	90	103.5	P
Cell #15	55.0	4.37	87	105.1	P
TABLE: 3.(1) External Short Circuit Test (Precondition at lowest test temperature 10°C for cell)					P
Cell #16	55.0	4.38	83	106.2	P
Cell #17	55.0	4.39	91	105.8	P
Cell #18	55.0	4.38	87	107.3	P
Cell #19	55.0	4.37	88	105.6	P
Cell #20	55.0	4.37	84	104.4	P
Supplementary information: no fire or explosion					

TABLE: 3.(1) External Short Circuit Test (Precondition at highest test temperature 55°C for Power bank)					P
Model	Ambient (At 20°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise-ΔT, °C	Results
Battery #6	24.1	5.08	86	24.5	P
Battery #7	24.1	5.07	87	24.6	P
Battery #8	24.1	5.12	88	24.8	P
Battery #9	24.1	5.10	90	24.9	P
Battery #10	24.1	5.06	89	24.7	P
TABLE: 3.(1) External Short Circuit Test (Precondition at lowest test temperature 10°C for Power bank)					P
Battery #11	24.1	5.05	85	24.4	P
Battery #12	24.1	5.09	83	24.3	P
Battery #13	24.1	5.03	91	24.6	P
Battery #14	24.1	5.08	82	24.8	P
Battery #15	24.1	5.10	84	24.7	P
Supplementary information: no fire or explosion					



TABLE: 3.(7) Overcharge Tests (Lithium Systems)						P
Model	Ambient (At 10°C ± 2°C or 45°C ± 2°C)	OCV at start of test, Vdc	Maximum Charging Current, mA	Maximum Charging Voltage, Vdc	Total Time of Charging, h	Results
Cell #21	50	3.12	2000	10	12.5	P
Cell #22	50	3.16	2000	10	12.5	P
Cell #23	50	3.15	2000	10	12.5	P
Cell #24	50	3.19	2000	10	12.5	P
Cell #25	50	3.20	2000	10	12.5	P
Cell #26	10	3.21	2000	10	12.5	P
Cell #27	10	3.13	2000	10	12.5	P
Cell #28	10	3.14	2000	10	12.5	P
Cell #29	10	3.11	2000	10	12.5	P
Cell #30	10	3.10	2000	10	12.5	P
Supplementary information: No fire or explosion.						

TABLE: 3.(8) Forced Discharge Test (Cell)					P
Model	Ambient (At 10°C ± 2°C or 45°C ± 2°C)	OCV before application of reverse charge, Vdc	Measured Reverse Charge It, mA	Total Time for Reversed Charge Application, Min	Results
Cell #31	50	3.12	10000	90	P
Cell #32	50	3.16	10000	90	P
Cell #33	50	3.13	10000	90	P
Cell #34	50	3.20	10000	90	P
Cell #35	50	3.21	10000	90	P
Cell #36	10	3.15	10000	90	P
Cell #37	10	3.14	10000	90	P
Cell #38	10	3.19	10000	90	P
Cell #39	10	3.18	10000	90	P
Cell #40	10	3.11	10000	90	P
Supplementary information: no fire or explosion					



TABLE: 3.(9) Cell Protection Against a High Charging Rate Test (Lithium Systems)					P
Model	Ambient (At 10°C ± 2°C or 45°C ± 2°C)	OCV at start of test, Vdc	Maximum Charging Current, mA	Maximum Charging Voltage, Vdc	Results
Cell #41	50	3.20	6000	4.20	P
Cell #42	50	3.21	6000	4.20	P
Cell #43	50	3.16	6000	4.20	P
Cell #44	50	3.15	6000	4.20	P
Cell #45	50	3.13	6000	4.20	P
Cell #46	10	3.14	6000	4.20	P
Cell #47	10	3.11	6000	4.20	P
Cell #48	10	3.10	6000	4.20	P
Cell #49	10	3.20	6000	4.20	P
Cell #50	10	3.19	6000	4.20	P
Supplementary information: no fire or explosion					

TABLE: 3.(10) Forced internal short circuit of cells					P
Model	Ambient (At 10°C ± 2°C or 45°C ± 2°C)	OCV at start of test, Vdc	Test was terminated for a voltage drop of 50mV or a pressure of reaching 400N	Voltage drop(mV)	Results
Cell #51	45	4.38	400	0	P
Cell #52	45	4.38	400	0	P
Cell #53	45	4.37	400	0	P
Cell #54	45	4.37	400	0	P
Cell #55	45	4.36	400	0	P
Cell #56	10	4.34	400	0	P
Cell #57	10	4.33	400	0	P
Cell #58	10	4.33	400	0	P
Cell #59	10	4.35	400	0	P
Cell #60	10	4.34	400	0	P
Supplementary information: no fire or explosion					

TABLE: 3.(11) Function of the overcharge protection of batteries				P
Model (Battery)	OCV at start of test, Vdc	OCV at End of test, Vdc (≤4.25V)	CHARGING VOLTAGE, VDC (> 4.25V)	Results
Battery #16	4.20	4.20	4.3	P
Supplementary information: no fire or explosion, no leakage				



Attachment I:

EUT Photo 1



EUT Photo 2





EUT Photo 3



EUT Photo 4

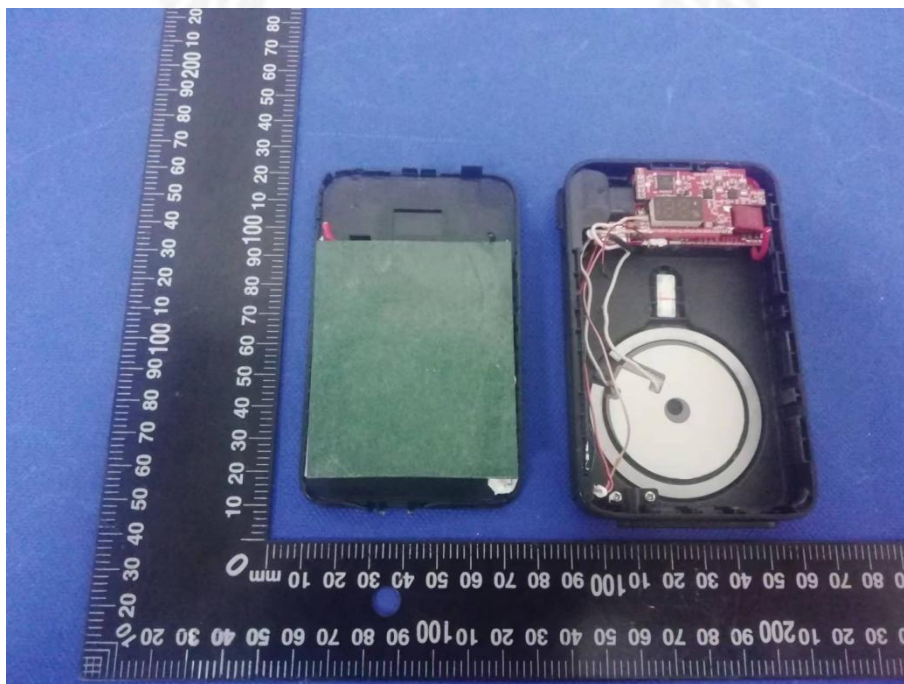




EUT Photo 5

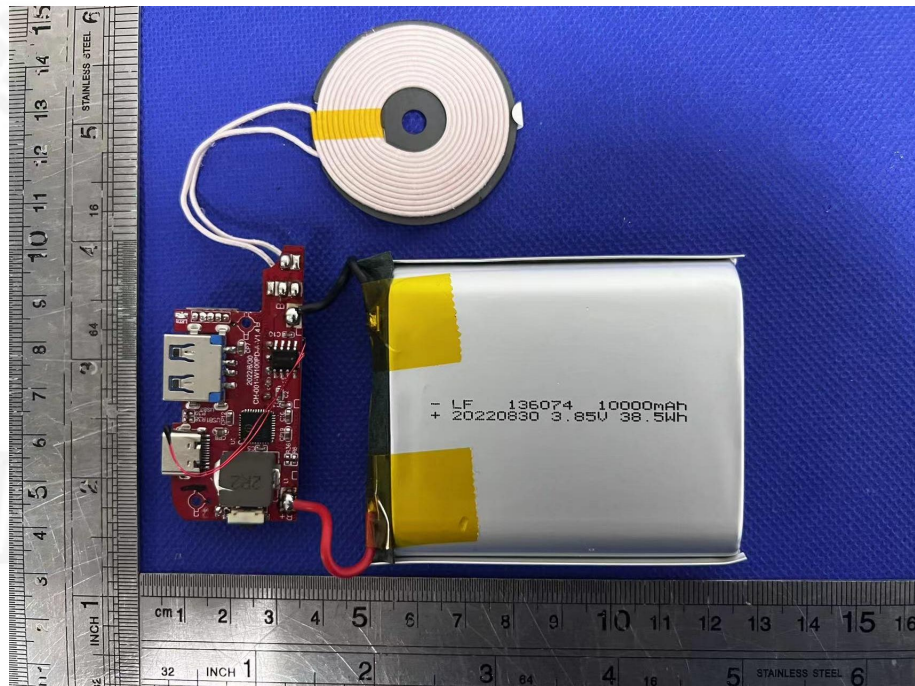


EUT Photo 6

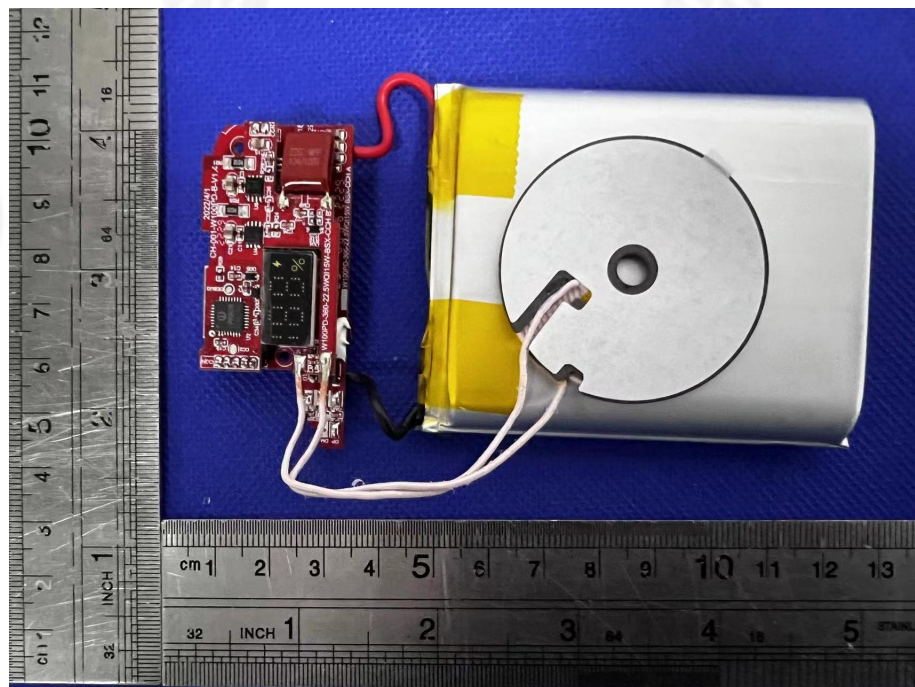




EUT Photo 7

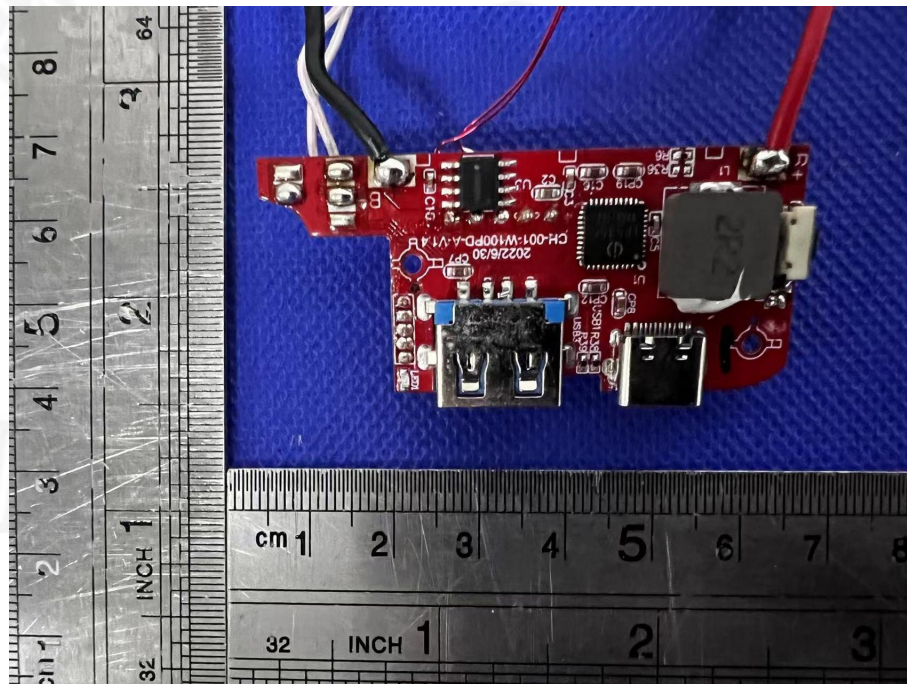


EUT Photo 8

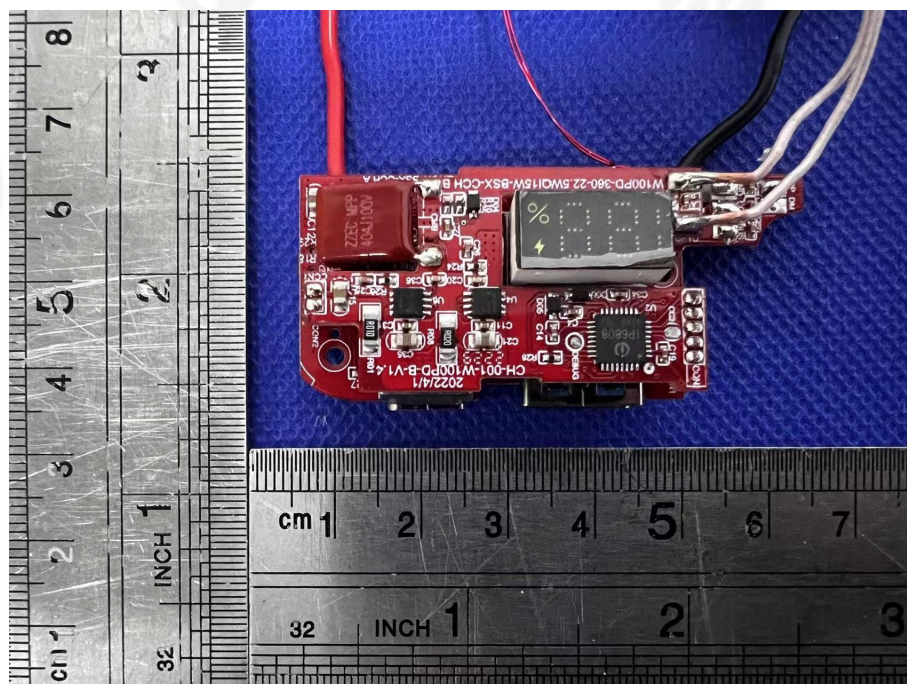




EUT Photo 9



EUT Photo 10





Attachment 2:
型式の区分 TYPE CLASSIFICATION

電気用品名 Product Name: Power bank

品番 Model: W100PD

型式の区分		○印
要素	区分	
単電池の形状	(1) 円筒形のもの Cylindrical	
	(2) 角形のもの Prismatic	○
	(3) その他のもの Other	
単電池の電解質の種類	(1) 液体状のもの Liquid state	○
	(2) その他のもの Other	
単電池の上限充電電圧	(1) 4 . 2 5 V 以下のもの 4.25 V or less	○
	(2) 4 . 2 5 V を超えるもの More than 4.25V	
組電池の質量	(1) 7 k g 以下のもの 7 kg or less	○
	(2) 7 k g を超えるもの More than 7 kg	
電池ブロックの個数	(1) 1 個のもの Single	○
	(2) 2 個以上のもの Multiple	
過充電の保護機能	(1) 組電池で制御するもの Controlled by secondary battery	○
	(2) 組電池搭載機器又は充電器で制御するもの Controlled by equipment incorporating a secondary battery or a charger	
用途	(1) 携帯機器用のもの For mobile equipment	○
	(2) 卓上機器用のもの For desktop equipment	
	(3) その他のもの Other	
組電池の種類	(1) はんだ付けその他の接合方法により、容易に取り外すことができない状態で機械器具に固定して用いられるものその他の特殊な構造のもの Those designed to fix to appliances by soldering or other joining methods so that it cannot be easily removed, or those having other special construction	
	(2) その他のもの Other	○

※※※※※ END OF REPORT ※※※※※