

Yongyue Cai NINGBO LINCH TOYS MANUFACTURY CO LTD NO 23 XINYUAN NO.1 RD,NINGHAI NINGBO ZHEJIANG 315040 CHINA

Date: 2019/09/05 Subscriber: None PartySite: 1515022 File No: E485213 Project No: 4789069493

PD No: 19048756

Type:
PO Number:

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

Issue

Date	Vol	Sec	Pages	Revised Date
· <u></u>	1		Revised Authorization Page(s)	2019/08/29
	1		Marking Data Page(s)	
	1		Revised Index Page(s) 1	2019/08/29
2019/08	/29 1	3	Cert of Compliance	
2019/08	/29 1	3	Add New Proc/Report Sect	·

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to SI-WEI WANG (EXT. 7562) This material is provided on behalf of UL LLC(UL) or any authorized licensee of UL.

SUZ File



File E485213 Vol 1 Auth. Page 1 Issued: 2016-09-07 Revised: 2019-09-04

FOLLOW-UP SERVICE PROCEDURE (TYPE R)

POWER BANKS (BBSZ)

 $\begin{array}{c} \textbf{Complementary Product Category} \\ \textbf{BATTERY CHARGERS, WIRELESS, LOW ENERGY} \end{array}$

(BBJL)

INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS

EQUIPMENT (NWGQ, NWGQ7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

1515022 (Party Site)

Applicant: Ningbo Linch Toys Manufactury Co Ltd

No 23 Xinyuan No.1 RD, Ninghai

Ningbo

Zhejiang 315040 CHINA

1515022 (Party Site)

Listee: SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

File E485213 Vol 1 Auth. Page 2 Issued: 2016-09-07 Revised: 2019-09-04

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following web-site: http://www.ul.com/fus.

Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at http://www.ul.com/aboutul/locations/, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: http://services.ul.com/fus-service-terms. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body.

Bruce A. Mahrenholz Director Conformity Assessment Programs (CPO) UL LLC File E485213 Vol 1 Addendum To Page 1 Issued: 2016-09-07 Authorization Page Revised: 2019-09-04

LOCATION

2234375 (Party Site)

Dongguan Leaper Electronic Technogy CO.,LTD

4th floor No.9 New District

Fumin Industrial Zone, Dalang new town

Dongguan

Guangdong 528244 CHINA

Factory ID: None

UL Contracting Party for above site is: UL GmbH



Listing Mark Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only.

The word "LISTED" shall be in either the four or six o'clock position with respect to the UL symbol (see example below). Minimum size of the Listing Mark is not specified, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible. Camera-ready artwork and relative proportions are available online at www.ul.com.



XXXX = The control number assigned by UL, or Applicant/Listee's File Number. E485213

The product identity is: "UL 1950," "UL 60950," "UL 60950-1," "INFORMATION TECHNOLOGY EQUIPMENT" (or INFO. TECH. EQUIP.," "I.T.E" or "ITE"), "NWGQ," or the standard number with or without the "ANSI/UL" prefix (e.g., "ANSI/UL 60950-1," "60950-1"), and may also include one of the following product identities: "COPIER," "MODEM," "PAPER SHREDDER," "PERSONAL COMPUTER," "CORDLESS TELEPHONE," or other appropriate product identity as shown in the individual Listings.

The category identifier for field-installed accessories includes the word "ACCESSORY."

The product identity may appear elsewhere on the product when the other three elements are directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process or part of the nameplate which includes the rating or the catalog or model designation.

A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) shall always include the four elements.

The complete four-element Listing Mark may appear on the smallest unit container in which the product is packaged when the product is of such a size that only the UL symbol can be stamped, cast or molded into the product.

PROCUREMENT

The manufacturer may reproduce the Mark or obtain it from an authorized label supplier. Authorized label suppliers can be found online at www.ul.com.

File E485213 Vol. 1 NWGQ7 Page 1 of 2 Issued: 2012-03-29 Canadian Listing Mark Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only.

The word "LISTED" shall be in either the four or six o'clock position with respect to the UL symbol (see example below). Minimum size of the Listing Mark is not specified, as long as it is legible. The minimum height of the registered trademark symbol @ shall be 3/64 of an inch. When the overall diameter of the UL symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible. Camera-ready artwork and relative proportions are available online at www.ul.com.

The Canadian/US symbol shall be used if both Canadian and US coverage is authorized (see example below).



The Canadian symbol shall be used if only Canadian coverage is authorized (see example below).



vvvv

XXXX = The control number assigned by UL, or Applicant/Listee's File Number. E485213

The product identity is: "INFORMATION TECHNOLOGY EQUIPMENT" (or INFO. TECH. EQUIP.," "I.T.E" or "ITE"), "NWGQ7," or the standard number with or without the "CAN/CSA-C22.2 NO." prefix (e.g., "CAN/CSA-C22.2 NO. 60950-1," "60950-1"), and may also include one of the following product identities: "COPIER," "MODEM," "PAPER SHREDDER," "PERSONAL COMPUTER," "CORDLESS TELEPHONE," or other appropriate product identity as shown in the individual Listings.

File E485213 Vol.1 NWGQ7 Page 2 of 2 Issued: 2012-03-29 Canadian Listing Mark Data Page

The category identifier for field-installed accessories includes the word "ACCESSORY."

The product identity may appear elsewhere on the product when the other three elements are directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process or part of the nameplate which includes the rating or the catalog or model designation.

A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) shall always include the four elements.

The complete four-element Listing Mark may appear on the smallest unit container in which the product is packaged when the product is of such a size that only the UL symbol can be stamped, cast or molded into the product.

PROCUREMENT

The manufacturer may reproduce the Mark or obtain it from an authorized label supplier. Authorized label suppliers can be found online at www.ul.com.

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only.

The word "LISTED" shall be in either the four or six o'clock position with respect to the UL symbol (see example below). Minimum size of the Listing Mark is not specified, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible. Camera-ready artwork and relative proportions are available online at www.ul.com.



XXXX = The control number assigned by UL, E485213

The product identity is: "INDUCTION TRANSMITTER" or "INDUCTION RECEIVER."

The product identity may appear elsewhere on the product when the other three elements are directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process or part of the nameplate that includes the rating or the catalog or model designation.

A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) shall always include the four elements.

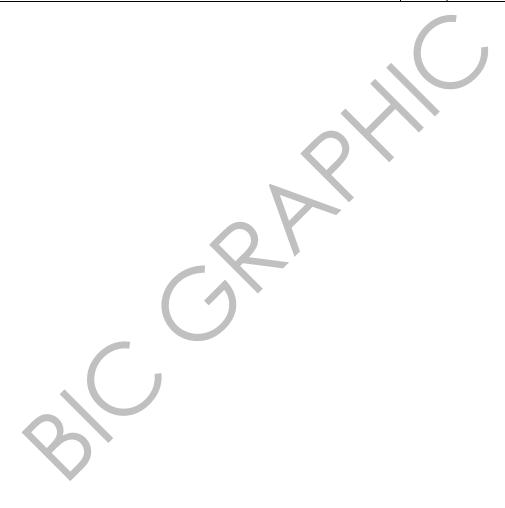
PROCUREMENT

The manufacturer may reproduce the Mark or obtain it from an authorized label supplier. Authorized label suppliers can be found online at www.ul.com.

File E485213 Vol. 1 Index Page 1 Issued: 2016-09-12 Revised: 2019-08-29

INDEX

		Requirements
		Evaluated to
Model	Sec.	(US and/or CN)
Power Bank, Model(s): 98839, 98850, 98847	1	USL and CNL
Power Bank, Model(s): 98882, 88854, 98878, 98908, 98939	2	USL and CNL
Wireless Power Bank, Model(s): AB0066	3	USL and CNL



CERTIFICATE OF COMPLIANCE

 Certificate Number
 20190905-E485213

 Report Reference
 E485213-20190829

 Issue Date
 2019-SEPTEMBER-05

Issued to: Ningbo Linch Toys Manufactury Co Ltd

No 23 Xinyuan No.1 RD,Ninghai Ningbo,Zhejiang 315040 CHINA

This certificate confirms that representative samples of

POWER BANKS; BATTERY CHARGERS, WIRELESS, LOW ENERGY; INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS

EQUIPMENT

Wireless Power Banks, Model(s): AB0066.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: Standard for Outline of Investigation for Safety of Power

Banks, UL 2056

Standard for Safety of Information Technology Equipment – Safety - Part 1: General Requirements, CAN/CSA-C22.2

No. 60950-1-07 and UL 60950-1

standard for Induction Power Transmitters and Receivers

for use with Low Energy Products, UL2738

Additional Information: See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Ba Wally

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/



File E485213 Project 4789069493

August 29, 2019

REPORT

on

Power bank (BBSZ)

Complementary Product Category

Information Technology Equipment
Including Electrical Business Equipment
(NWGQ, NWGQ7)

Induction Power Transmitters and Receivers for use with Low Energy Products (BBJL)

Ningbo Linch Toys Manufactury Zhejiang, China

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File E485213 Vol. 1 Sec. 3 Page 1 Issued: 2019-08-29 and Report

DESCRIPTION

PRODUCT COVERED:

USL, CNL - Wireless Power Banks, Model(s): AB0066.

ELECTRICAL RATING:

INPUT/OUTPUT MODE	Parameter	Rating
Micro USB	Input Rated Voltage, Vdc	5.0
	Input Rated Current, A	1.0
USB	Output Rated Voltage, Vdc	5.0
	Output Rated Current, A	2.0
	Output End-of-Discharge Voltage, Vdc	4.5
	Output Rated Capacity, mAh	2750
Wireless output	Output Rated Capacity, mAh	2050
Manufacturer's	Charging: 0~45; Discharging: 0~45.	
Maximum Recommended Ambient, °C		

Note: The products have been tested based upon their electrical ratings. No testing with a host product including a charger has been conducted.

CELL CHEMISTRY AND CONFIGURATION:

Cell Model	Cell Chemistry and	Number of	Configuration*:
	Type#	Cells	X-S/Y-P
955565PL	lithium ion (soft pouch)	1	1-S/1-P

^{* -} X = No. of cells in series; Y = Number of parallel strings.

INTERNAL BATTERY CHARGING PARAMETERSRECOMMENDED BY MANUFACTURER:

Standard Charging	Standard Charging	Maximum Charging	Maximum Charging
Current, A	Voltage, Vdc	Current, A	Voltage, Vdc
1.0	4.2	3.5	4.2

File E485213 Vol. 1 Sec. 3 Page 2 Issued: 2019-08-29 and Report

GENERAL CONSTRUCTION:

See Section General for general details regarding construction.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVES'S USE):

Products designated USL have been investigated using requirements contained in the Issue 2 of UL 2056, Outline of Investigation for Safety of Power Banks, issue dated November 03, 2015.

Products designated USL have been investigated using requirements contained in the U.S. Standard for Safety of Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, Second Edition, issue dated March 27, 2007, with revisions through and including May 9, 2019.

Products indicated as CNL have been investigated using requirements contained in the Canadian Standard for the Safety of Information Technology Equipment - Safety - Part 1: General Requirements, Canadian Standards Association, CAN/CSA-C22.2 No. 60950-1-07, Second Edition, issue dated March 27, 2007, with revisions through and including October 14, 2014.

Products indicated as USL have been investigated using requirements contained in the U.S. Standard for Standard for Induction Power Transmitters and Receivers for use with Low Energy Products, UL2738, First Edition, issue dated April 28, 2011, with revisions through and including October 1, 2013.

File E485213 Vol. 1 Sec. 3 Page 3 Issued: 2019-08-29 and Report

MARKINGS/INSTRUCTIONS:

All markings shall be legible and permanent such as ink stamped, etched, adhesive labels, etc. All adhesive labels shall be R/C (PGDQ2) component marking and labeling systems or printed on R/C (PGJI2) Component Printing Materials.

Nameplate Marking - The Listee Name, trade name, trademark, file No. or other descriptive marking, catalog or model number, electrical rating, date of manufacturer and UL Listing Mark.

Electrical Rating Marking - The following information shall be provided:

- a. Input rating in Vdc and A.
- b. Output rating in Vdc and A.
- c. Electrical capacity in Ah or mAh.

Date of Manufacturer Marking: YYYY/MM/DD.

YYYY is for manufacture year: 2016, ..., 2025.

MM is for manufacture month: 01 for January, ..., 12 for December.

DD is for manufacture day, from "01" to "31".

For example: 2016/01/05 means that manufactured in Jan 5, 2016.

Factory Location Marking - See Section General for manufacturing location marking.

Instructions - Each power bank shall be provided with the following, or
equivalent(See ILL.4):

- a. Instructions pertaining to the proper selection and replacement of its power supply or charger.
- b. Instructions pertaining to a risk of fire or injury to persons associated with the use of the product.

File E485213 Vol. 1 Sec. 3 Page 4 Issued: 2019-08-29 and Report

Wireless Power Banks, Model(s): AB0066. See Fig(s) 1~9.

See Ill(s). 1~5 for additional views of overall constructions.

1. Cell - See table below:

Cell	Cell Model	Recognized	Recogni	zed Cells
Manufacturer	No.	Cells, Y or N*	File Number	Issue Date
Dongguan Nengyou Energy Science and Technology Co., Ltd.	955565PL	Y	MH61806	2016-11-02

Note: See Cell Chemistry and Configuration Table at beginning of report for information on type of cells, number of cells and their configuration in the battery pack circuit.

Cells are located within the product in a manner that would not result in blocking of vents in the event of cell venting. Cells are secured in their enclosure and prevented from movement that would cause damage to connections and short circuit of parts as described in Fig. 9.

Connections to cell terminals are constructed as described in Fig. 7~8.

2. Power Bank Enclosure/Case - See Table Below:

Model Name	Overall Dimensions, L x W x H, mm	Minimum Thickness, mm	Enclosure Material Manufacturer/Grade	Enclosure Material Type	Enclosure Material Flame Rating at Minimum Thickness*
AB0066 (See Fig.1& ILL.1)	75 x 84 x 17	2.5	CHI MEI CORPORATION 746C 20mm Flame Test	PA-765B+ (E56070)	Min.V-0 at minimum 2.5 thickness,80 degree C

All Enclosure parts are secured by:

Model	Enclosure Parts Securement Means	Adhesive De Report R	escription, eference
		File Number	Issue Date
AB0066	Snap joint Securement (See Fig.8)		

File E485213 Vol. 1 Sec. 3 Page 5 Issued: 2019-08-29 and Report

3. Battery Protective Circuitry - Consists of the following:

Component Type	Component Location	Component Manufacturer	Component Part No.	Component Ratings
IC (U3)	PWB	XYSEMI	XB7608A	Over current:9A
IC (U4)	PWB	XYSEMI	XB7608A	Over current:9A
NTC	PWB	Various	Various	10kΩ

4. Power Bank Charging and Discharging DC/DC Circuitry - Consists of the following:

Component Type	Component Location	Component Manufacturer	Component Part No.	Component Ratings
IC (U1)	PWB	INJOINIC TECHNOLOGY	IP5306	Vdd:max 5.5V;
MOS(Q1)	PWB	asiachip	3401A	Vds:-30V,Id:- 4.4A
Inductance (L1)	PWB	Various	Various	1.0uH

5. Wireless Circuitry - Consists of the following:

Component Type	Component Location	Component Manufacturer	Component Part No.	Component Ratings
IC (U2)	PWB	Chuangzhihui electronics technology (sz)co.,ltd	СZН9400	Vdd:5v
MOS(Q2)	PWB	GUANGDONG HOTTECH INDUSTRIAL CO.,LTD	4953	Vds:-30V,Id:- 5.1A
MOS(Q3)	PWB	Advanced power Electronics Corp	9926	Vds:16V,Id:- 7A
Coil(R10)	Located on the cell (see Ill.3 for reference)	ShenzhenSongd ao Technology Co. Ltd	A511	6.8uH; Ф50MMX5 .0MMX1.0MM;
Magnetic Wire	Located on the cell	Various	Various	(OBMW2) 155℃,MW 79-C

File E485213 Vol. 1 Sec. 3 Page 6 Issued: 2019-08-29 and Report

See the following illustrations for details of protective circuitry:

Battery Pack Model	TestRef. No.
AB0066	ILL.2

6. External Connector (output and input ports) - Constructed as noted below: R/C (ECBT2 or RTRT2), minimum 30 V or made of material with minimum flammability Class V-2 and minimum 85 degree C.

Inadvertent shorting of connector prevented by the following:

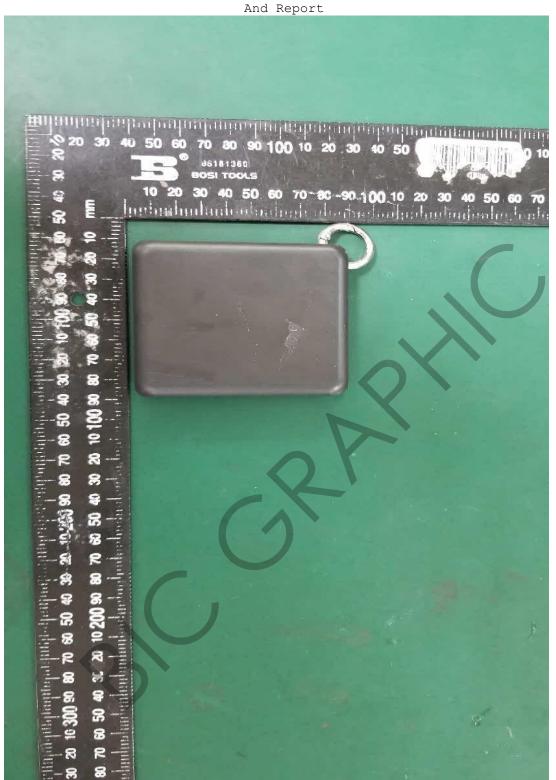
Description of Mechanism to Prevent Inadvertent Short Circuiting of Connector Terminals

Recessing construction (Construction as Fig. 9)

- 7. Insulation (Optional) R/C (OANZ2), located between cell and other parts, minimum 100 degree C or designated "Flame Retardant", except for less than or equal to $2 \, \text{cm}^3$.
- 8. Printed Wiring Board R/C (ZPMV2 or ZPXK2), Min. V-1, Min. 130°C, provided for mounting of circuit, which secured in place by cover enclosure internal recessing construction.
- 9. Internal Plastic Part Materials (optional) (QMFZ2 or QMTS2), located between cell, and other parts, Min. V-2. Except for equal or less than 2cm3.

Alternate Internal Plastic Part Materials - (OANZ2) located between cell, and other parts. Except for equal to or less than 2cm3.

10. Leading wire - R/C (AVLV2), rated: minimum 40 AWG, minimum 105 Degree C.



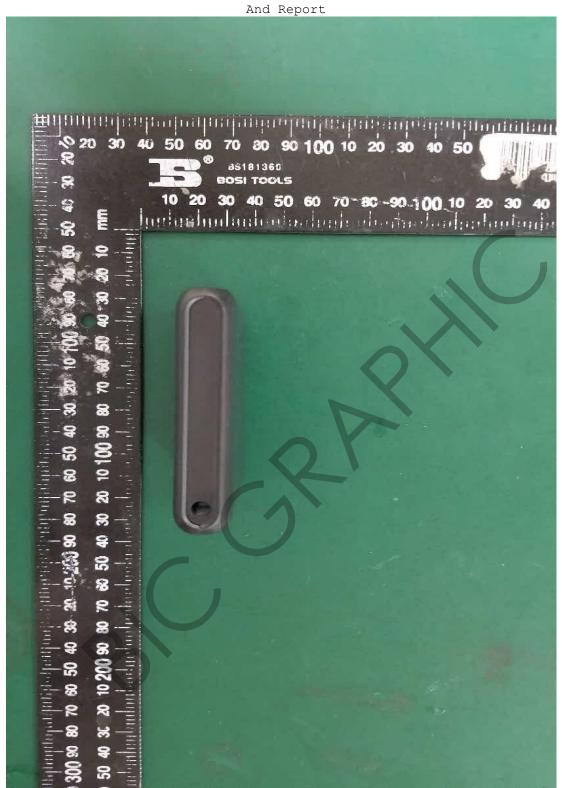
N191981748



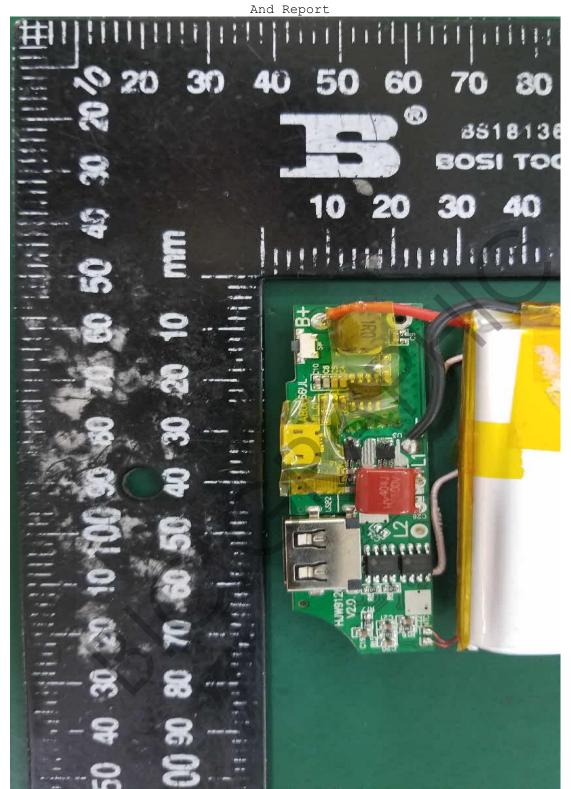
N191981750



N191981752



N191981754



N191981757



N191981760

N191981762



N191981764

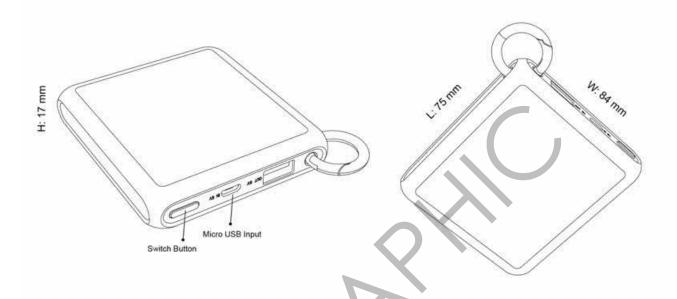


N191981766

File E485213 Vol. 1 Sec. 3 ILL-1 Issued: 2019-08-29 And Report

Construction (unit: mm):

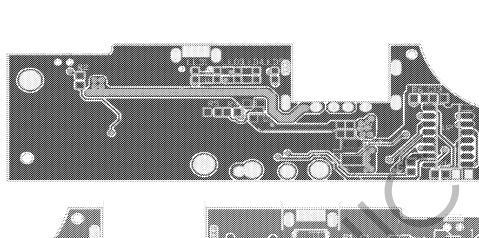
Wireless Charger & Power Bank

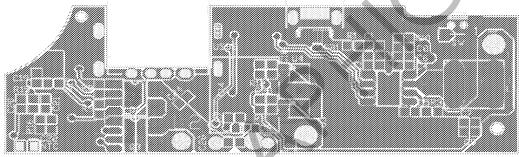


Dimensions: Length*Width*Height: 75mm*84mm*17mm

N191981771

MODEL: AB0066





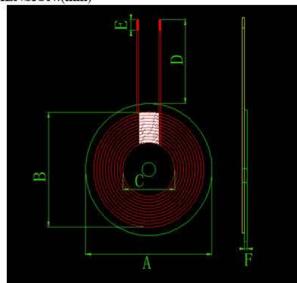
File E485213

Vol. 1

Sec. 3 ILL-3 And Report

Issued: 2019-08-29

一、尺寸 DIMENSION:(mm)



Ξ,	原理图 SCHEMATIC DIAGRAM:	
S		F

A 50.0 \pm 1.0

B 43.5 \pm 1

C 20.5 \pm 0.5

D 22 \pm 2

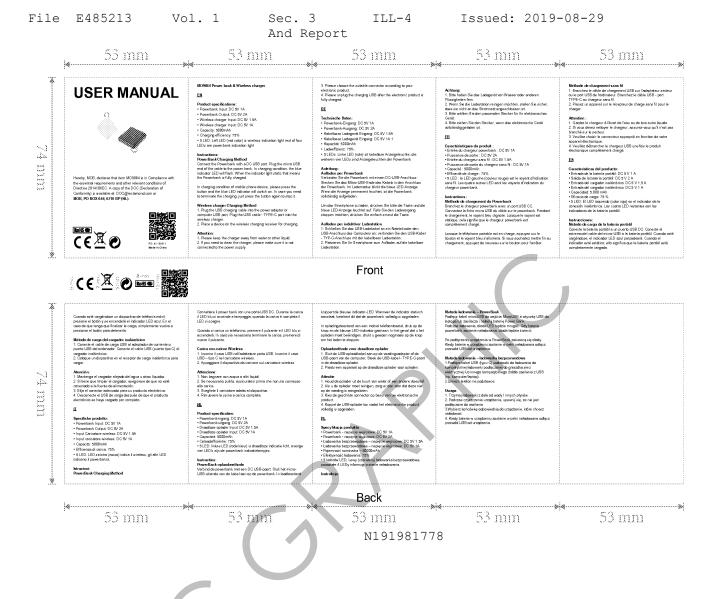
E 4 \pm 1

F 1 \pm 0.2

注:

N191981775

- 1.交叉出线;
- 2.出线位置缠 8mm(ref)宽度高 温胶纸 1-2Ts;
- 3.线圈贴圆形硬磁片不带槽, 磁片尺寸50±1mm,内孔
- 5.3mm,厚度为 1.0±0.2mm。



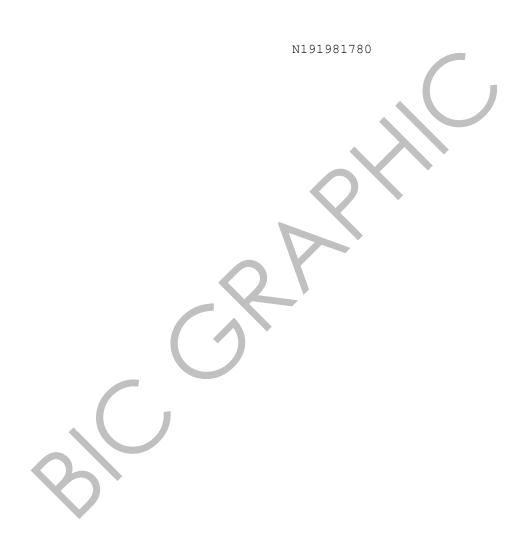
And Report

UL Listed 5000 mAh Wireless Power Bank





Model: AB0066
Input: DC 5V/1000mA
Output: DC 5V/2000mA Wirelessoutput: 5V/1000mA
Battery/Cel capacity: 18.5Wh, 3.7V/5000mAh
Product capacity(US): 13.75Wh, 5V/2750mAh
Product capacity (Wireless): 10.25Wh, 5V/2050mAh
CAUTION: Risk of Fire and Burns
WARNING: SEE INSTRUCTION MANUAL BEFORE USE
MADE IN CHINA



TEST RECORD NO. 1

SAMPLES:

Samples of the Wireless Power Banks, Model(s): AB0066 as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

INPUT/OUTPUT MODE	Parameter	Rating
Micro USB	Input Rated Voltage, Vdc	5.0
	Input Rated Current, A	1.0
USB	Output Rated Voltage, Vdc	5.0
	Output Rated Current, A	2.0
	Output End-of-Discharge Voltage, Vdc	4.5
	Output Rated Capacity, mAh	2750
Wireless output	Output Rated Capacity, mAh	2050
Manufacturer's	Charging: 0~45; Discharging: 0~45.	
Maximum Recommended		
Ambient, °C		

Model No.	Standard Charging Current, A	Standard Charging Voltage, Vdc	Maximum Charging Current, A	Maximum Charging Voltage, Vdc	Cell Config xS/yP	Cell Mfg.	Cell Model Number
AB0066	1.0	4.2	3.5	4.2	1S/1P	Dongguan Nengyou Energy Science and Technology Co., Ltd. (MH61806)	955565PL

GENERAL:

Test results relate only to the items tested.

The tests were conducted in UL-CCIC COMPANY LIMITED.

The following tests were conducted.

Model	Test Conducted	UL 2054 Section Reference / [X] (UL/CSA 60950-1 Section Reference)	Compliant Results? [Y][N][N/A]	Comments
AB0066	Short Circuit Test - At Room Temperature (Excessive Discharging Rate for any Battery)	8.1 (4.3.8)	Y	-
	Short Circuit Test (At 55°C)	8.1	Y	_
	Abnormal Charging Tests: (Secondary) (Overcharging of a Rechargeable Battery)	8.1-8.4 (4.3.8)	Y	
	Abusive Overcharge Test	8.1-8.3, 8.5	Y	
	Limited Power Source Test	8.1,8.9	Y	The test was evaluated by the standard of UL2056.
	Battery Pack Component Temperature Test, Battery Pack Surface Temperature Test Lithium Ion System	8.1, 8.6- 8.8 (4.5) (2.1.1.5)	Y	
	250 N Steady Force Test	8.1 (4.2.1 - 4.2.4)	Y	
	Mold Stress Relief Test	8.1(4.2.7, 4.2.1)	Y	
	Drop Impact Test	8.1(4.2.6, 4.2.1)	Y	
	Power Input Test	9	Y	
	Overload Of Output Ports Test	10	Y	
	Capacity Verification Test	12, 13.2	Y	

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in Outline of Investigation for Safety of Power Banks, the Issue 2 of UL 2056, including revisions through revision date November 03, 2015 and Standard for Safety of Information Technology Equipment - Safety - Part 1: General Requirements, CAN/CSA-C22.2 No. 60950-1-07, Second Edition, including revisions through revision date October 14, 2014, and UL 60950-1, Second Edition, including revisions through revision date May 9, 2019.

Additional following tests were conducted.

Model	Test Conducted	UL 2738 Section Reference	Compliant Results? [Y][N][N/A]	Comments
AP10QC, CP11QC.	INDUCTION POWER TRANSMITTER MAXIMUM POWER TRANSFER TEST - NORMAL OPERATION	8	Y	-
	INDUCTION POWER TRANSMITTER MAXIMUM POWER TRANSFER TEST - COMPONENT FAULT TEST	9	Y	-

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in standard for Induction Power Transmitters and Receivers for use with Low Energy Products, UL2738, First Edition, issue dated April 28, 2011, with revisions through and including October 1, 2013.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in the U.S. Standard for Outline of Investigation for Safety of Power Banks, UL 2056, Second Edition, including revisions through revision date November 03, 2015 and Standard for Safety of Information Technology Equipment - Safety - Part 1: General Requirements, CAN/CSA-C22.2 No. 60950-1-07, Second Edition, including revisions through revision date October 14, 2014, and UL 60950-1, Second Edition, including revisions through revision date May 9, 2019, and standard for Induction Power Transmitters and Receivers for use with Low Energy Products, UL2738, First Edition, issue dated April 28, 2011, with revisions through and including October 1, 2013, and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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