

70177

Certificate No: NSL-290518001-S-1-C

Issue Date: 25 July 2018

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NEW-STANDARD

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Certificate of Conformity

EC TYPE-EXAMINATION
LVD DIRECTIVE: 2014/35/EU

Applicant & Manufacturer Information

Applicant: Hangzhou Sunlight Tools Co.,Ltd
Shanwu Industry Area, Wenyan Town, Xiaoshan District, Hangzhou,
Zhejiang, China

Manufacturer: Hangzhou Sunlight Tools Co.,Ltd
Shanwu Industry Area, Wenyan Town, Xiaoshan District, Hangzhou,
Zhejiang, China

Trade Mark: SUNSTORM

Product Information

Product Name: Battery Charger

Model(s): B6004#

Rating: Input: 230V~, 50Hz, 65W
Output: 12V DC, 3.8A

Testing According to Standard

Standard(s): EN 60335-2-29:2004+A2:2010
EN 60335-1:2012+A11:2014+A12:2017
EN 62233:2008

Report No: NSL-290518001-S-1

Conclusions:

This product has been tested by Suzhou New-Standard Laboratory Co.,Ltd and complies with the requirements of the above specified standards and Low Voltage Directive(LVD) 2014/35/EU. The CE Marking as showed below may be used if the products are complied with all relevant EC Directive



Andy Lu

ANDY LU
LABORATORY DIRECTOR

THE CERTIFICATE IS BASED ON THE TYPE-EXAMINATION EVALUATION OF SAMPLES OF THE PRODUCT AND TECHNICAL DOCUMENTATION. THE MANUFACTURER HAS THE RESPONSIBILITY FOR ENSURING THAT ALL SERIAL MANUFACTURE OF THE PRODUCTS IS IN COMPLIES WITH THE SPECIFICATION OF THE SAMPLE SUBMITTED FOR TEST ASSESSMENT AND DETAILED IN THE TECHNICAL DOCUMENTATION. IF ANY UNAUTHORIZED MODIFICATIONS ARE MADE ON THE PRODUCTS. THIS CERTIFICATION IS AUTOMATICALLY CANCELLED. THE CERTIFICATE IS VALID FOR FIVE YEARS FROM THE DATE OF ISSUE, THE PERIOD NOT INCLUDE THE STANDARD UPDATE.

TECHNICAL REPORT



Report No.: RoHS1807008
File reference No.: 2018-07-12
Applicant: Hangzhou Sunlight Tools Co., Ltd.
Product: Battery charger
Model No.: B6004#
Brand Name: N/A
Test Conclusions: Based on the verification results of the submitted samples, the test results comply with the limits as set by RoHS Directive 2011/65/EU Annex II.



Manager

Dated: 2018-07-12

**Test Conclusions appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject
to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,
Shenzhen, Guangdong, China

Tel (+86 755)8344 8688 Fax (+86 755)8344 2996 Email:info@timeway-lab.co



1 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES
Address: Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China
Tel: (+86 755)8344 8688
Fax: (+86 755)8344 2996

1.2 Applicant Details

Applicant: Hangzhou Sunlight Tools Co., Ltd.
Address: Shanwu Industry Area Wenyan Town Xiaoshan District Hangzhou Zhejiang China
Tel: +86-571-8230 0135
Fax: +86-571-8230 5168

1.3 Description of EUT

Product: Battery charger
Manufacturer: Hangzhou Sunlight Tools Co., Ltd.
Address: Shanwu Industry Area Wenyan Town Xiaoshan District Hangzhou Zhejiang China
Basic Model: B6004#
Additional Model: --
Brand Name: N/A

1.4 Submitted Sample

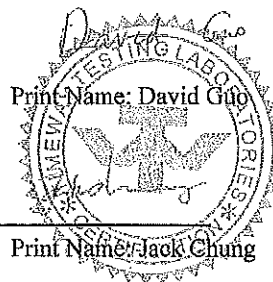
1 samples

1.5 Test Time

2018-07-03 to 2018-07-12

1.6 Test Engineer

The sample tested by



Print Name: David Guo

1.7 Verify Engineer

The report verified by

Print Name: Jack Chung



Sample models:

1.8 Possible test case verdicts

1. N.D.= NOT DETECTED (<2ppm)
2. ppm = PART PER MILLION
3. ppm = mg/kg
4. "-" = Not Regulated

1.9 General remark

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

SHENZHEN TIMEWAY TESTING LABORATORIES takes no responsibility for any mistakes caused by inaccurate and/or invalid information submitted by the applicant.

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The difference between models: The proportions and contents for the material are same.

2. Test Requested and Conclusion

Test according to RoHS (Restriction of Hazardous Substances) directive 2011/65/EU on submitted samples

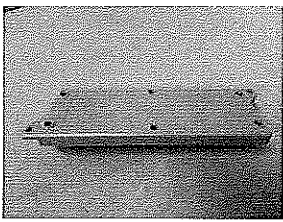
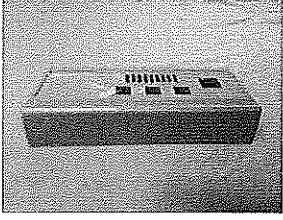
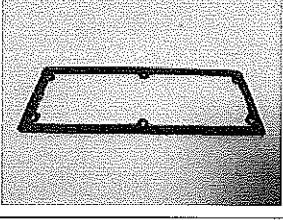
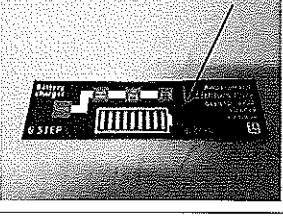
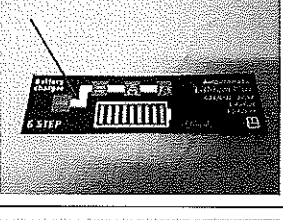
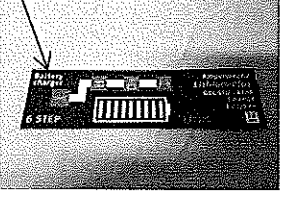
--- Heavy Metal (Pb, Cd, Hg and CrVI) Content **PASS**

--- Polybrominated Biphenyls (PBBs) and
Polybrominated Diphenyl Ethers (PBDEs) Content **PASS**

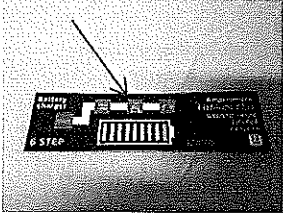
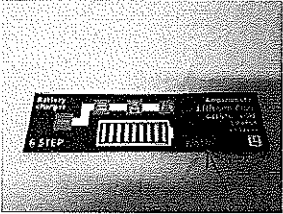
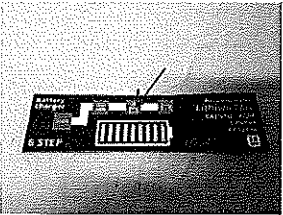
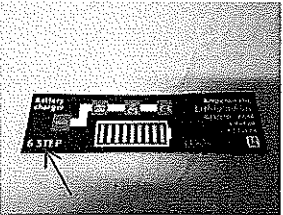
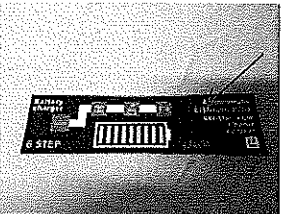
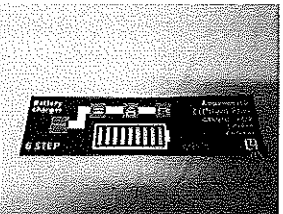
3. Test Result: Refer to the following page(s)



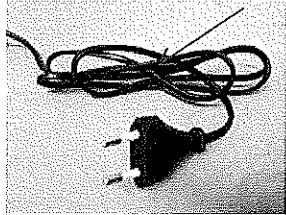
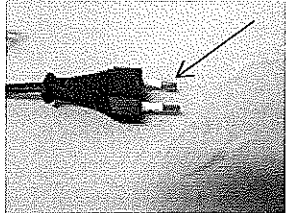
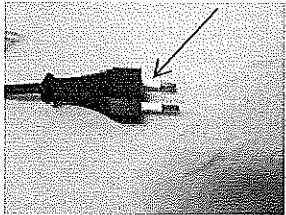
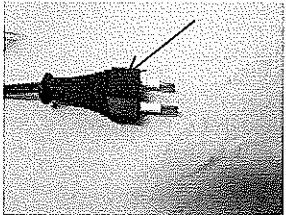
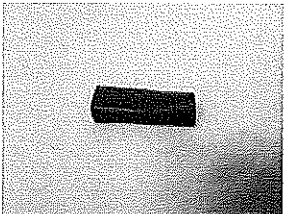
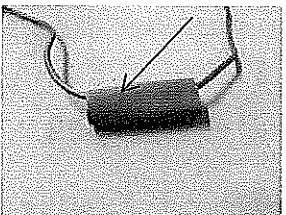
4. Tested subject Description

Sample Number	Item Name	Tested Material Description	Photo
001	Enclosure	Green plastic	
002	Enclosure	Green plastic	
003	Cushion	Black plastic	
004	Label	Black material	
005	Label	White material	
006	Label	White material	

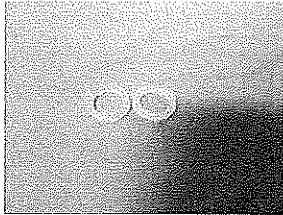
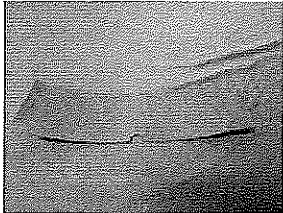
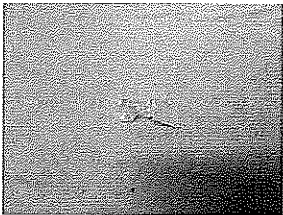
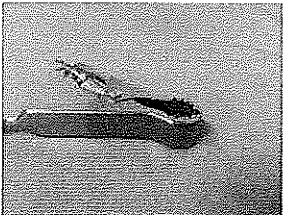
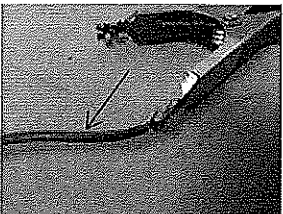
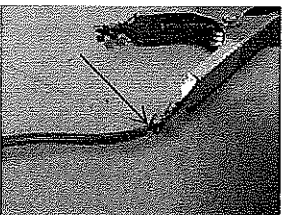


Sample Number	Item Name	Tested Material Description	Photo
007	Label	Red material	
008	Label	Red material	
009	Label	Black material	
010	Label	Green material	
011	Label	Green material	
012	Label	Black material	

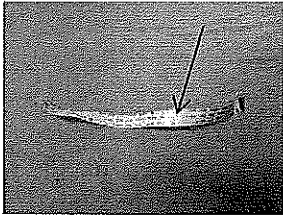
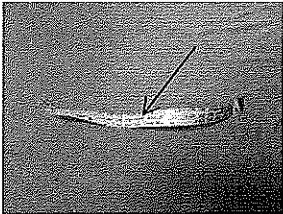
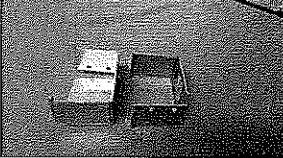
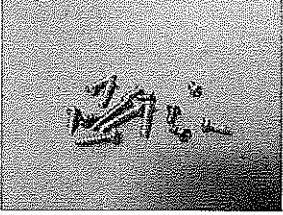
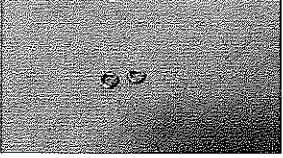
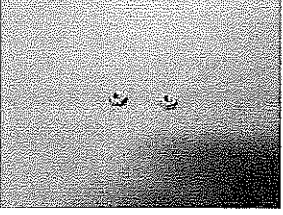


Sample Number	Item Name	Tested Material Description	Photo
013	Power cord	Black PVC material	
014	Plug pin	Silvery metal	
015	Pin support	White material	
016	Plug	Black plastic	
017	Sheath	Black plastic	
018	Sheath	Red plastic	

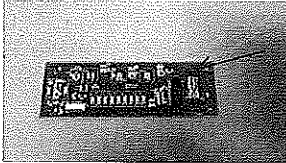
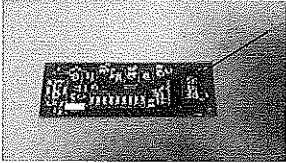
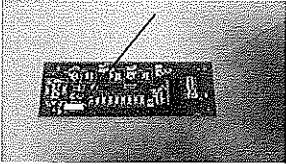
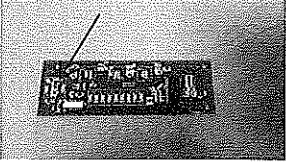
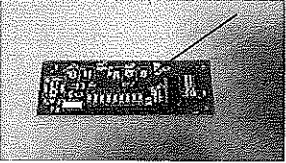
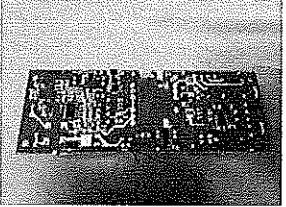
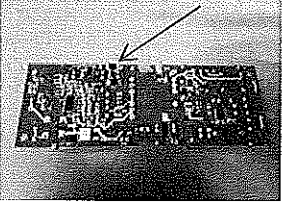


Sample Number	Item Name	Tested Material Description	Photo
019	Ring	Transparent plastic	
020	Insulating paper	Yellow material	
021	Transparent rubber pad	Transparent material	
022	Conductor clip	Silvery silvery	
023	Power cord	Red material	
024	Power cord	Copper line	

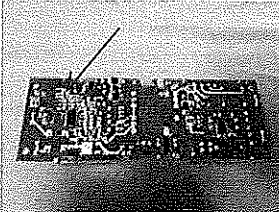
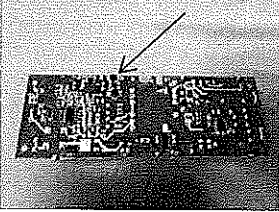
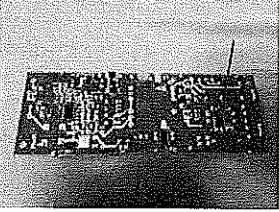
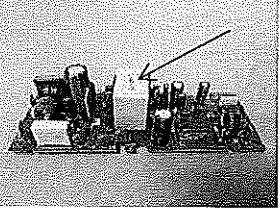
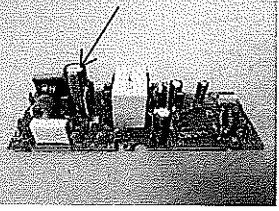
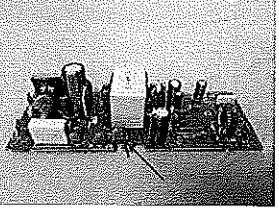


Sample Number	Item Name	Tested Material Description	Photo
025	Flexible flat cable	White material	
026	Flexible flat cable	Black material	
027	Heatsink	Silvery metal	
028	Screw	Silvery metal	
029	Washer	Silvery metal	
030	Nut	Silvery metal	

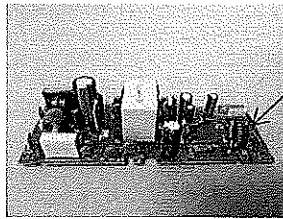
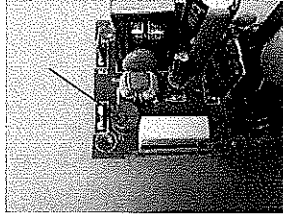
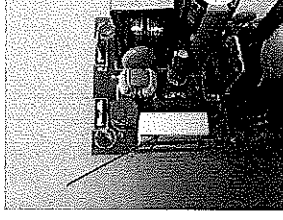
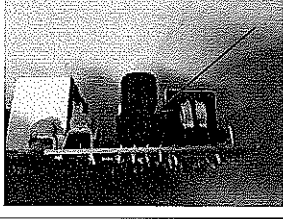
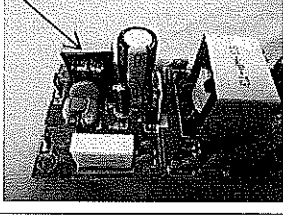
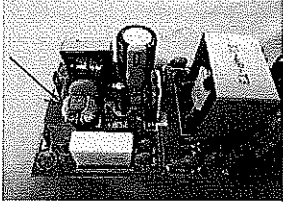


Sample Number	Item Name	Tested Material Description	Photo
031	PCB	Green material	
032	IC	Black material	
033	Connector	Black material	
034	Button	Silvery material	
035	LED lamp	White material	
036	SMD capacitance	Green material	
037	Chip transistor	Black material	

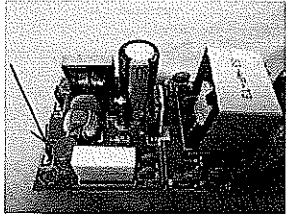
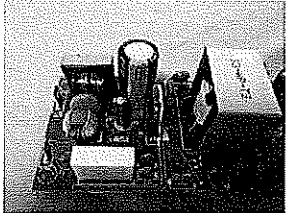
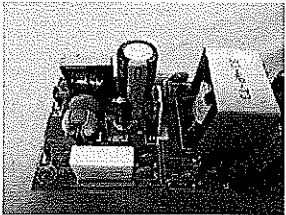
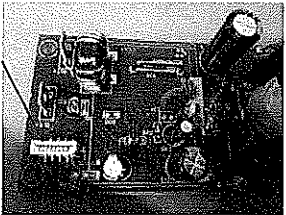
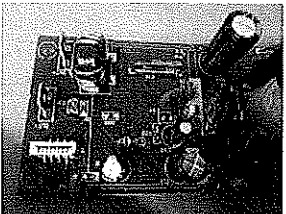
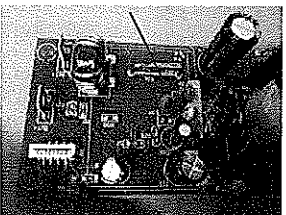


Sample Number	Item Name	Tested Material Description	Photo
038	SMD resistance	Black material	
039	SMD diode	Black material	
040	IC	Black material	
041	Transformer	Yellow material	
042	Capacitor	Black material	
043	Capacitor	Blue material	



Sample Number	Item Name	Tested Material Description	Photo
044	Inductor	Yellow material	
045	Fuse	Green material	
046	Capacitor	Yellow material	
047	Bridge diode	Black material	
048	Transformer	Silvery material	
049	Inductor	Green material	

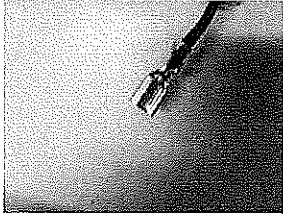
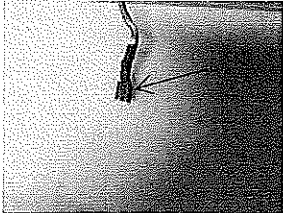


Sample Number	Item Name	Tested Material Description	Photo
050	Connecting pin	Copper	
051	Chip transistor	Black material	
052	IC	Black material	
053	Connection interface	White material	
054	Diode	Black material	
055	Capacitor	Green material	



Sample Number	Item Name	Tested Material Description	Photo
056	Control resistor	Silvery material	
057	Capacitor	White material	
058	Resistance	Silvery material	
059	Resistance	Green material	
060	Resistance	Black material	
061	Sheath	Transparent plastic	



Sample Number	Item Name	Tested Material Description	Photo
062	Insertion terminal	Silvery metal	
063	Heat-shrinkable tube	Black plastic	



Test method: With reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014 and EN 62321-8:2017.
For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometers (XRF);

Sample No.	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Bromine
001	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	BL
003	BL	BL	BL	BL	BL
004	BL	BL	BL	BL	BL
005	BL	BL	BL	BL	BL
006	BL	BL	BL	BL	BL
007	BL	BL	BL	BL	BL
008	BL	BL	BL	BL	BL
009	BL	BL	BL	BL	BL
010	BL	BL	BL	BL	BL
011	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	BL
013	BL	BL	BL	BL	BL
014	BL	BL	BL	BL	N.A.
015	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	BL
017	BL	BL	BL	BL	BL
018	BL	BL	BL	BL	BL
019	BL	BL	BL	BL	BL
020	BL	BL	BL	BL	BL
021	BL	BL	BL	BL	BL
022	BL	BL	BL	BL	N.A.
023	BL	BL	BL	BL	BL
024	BL	BL	BL	BL	BL
025	BL	BL	BL	BL	BL
026	BL	BL	BL	BL	BL
027	BL	BL	BL	BL	N.A.
028	BL	BL	BL	BL	N.A.
029	BL	BL	BL	BL	N.A.
030	BL	BL	BL	BL	N.A.



Sample No.	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Bromine
031	BL	BL	BL	BL	BL
032	BL	BL	BL	BL	BL
033	BL	BL	BL	BL	BL
034	BL	BL	BL	BL	BL
035	BL	BL	BL	BL	BL
036	BL	BL	BL	BL	BL
037	BL	BL	BL	BL	BL
038	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL
040	BL	BL	BL	BL	BL
041	BL	BL	BL	BL	BL
042	BL	BL	BL	BL	BL
043	BL	BL	BL	BL	BL
044	BL	BL	BL	BL	BL
045	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	BL
047	BL	BL	BL	BL	BL
048	BL	BL	BL	BL	BL
049	BL	BL	BL	BL	BL
050	BL	BL	BL	BL	N.A.
051	BL	BL	BL	BL	BL
052	BL	BL	BL	BL	BL
053	BL	BL	BL	BL	BL
054	BL	BL	BL	BL	BL
055	BL	BL	BL	BL	BL
056	BL	BL	BL	BL	BL
057	BL	BL	BL	BL	BL
058	BL	BL	BL	BL	BL
059	BL	BL	BL	BL	BL
060	BL	BL	BL	BL	BL
061	BL	BL	BL	BL	BL
062	BL	BL	BL	BL	N.A.



Sample No.	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Bromine
063	BL	BL	BL	BL	BL

Note:

- “BL” denotes below limit
- “OL” denotes over limit
- “N.A.” denotes not applicable



— XRF screening limits in mg/kg for regulated elements in various matrices

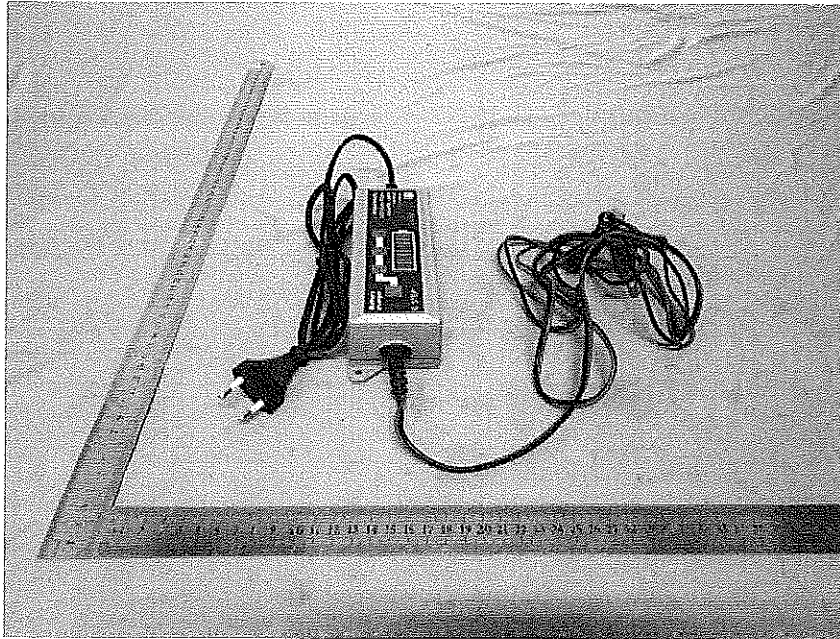
ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Br	$X < (300-3\sigma)$	$X > (300-3\sigma)$	N.A.
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	N.A.

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	N.A.

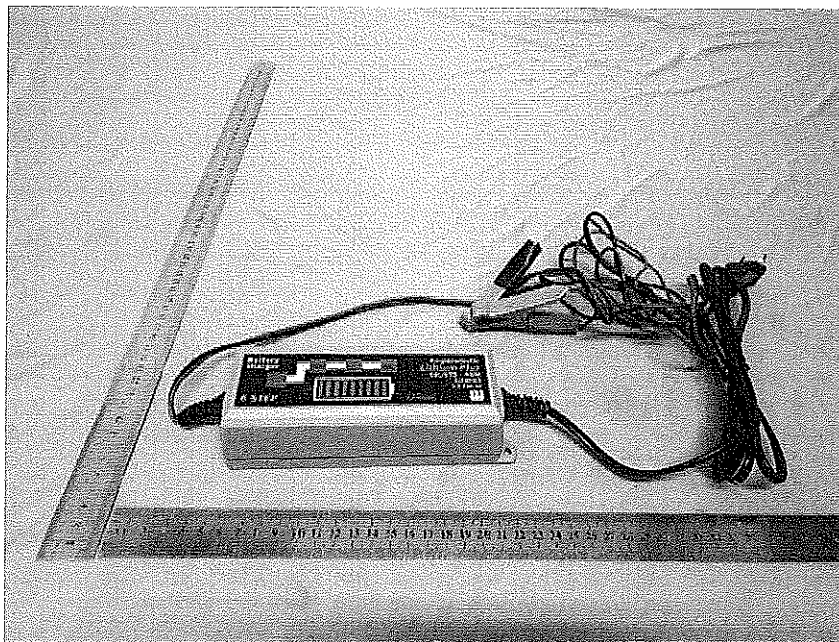
ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X > (150+3\sigma)$
Pb	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Hg	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Br	$X < (250-3\sigma)$	$X > (250-3\sigma)$	N.A.
Cr	$X < (500-3\sigma)$	$X > (500-3\sigma)$	N.A.



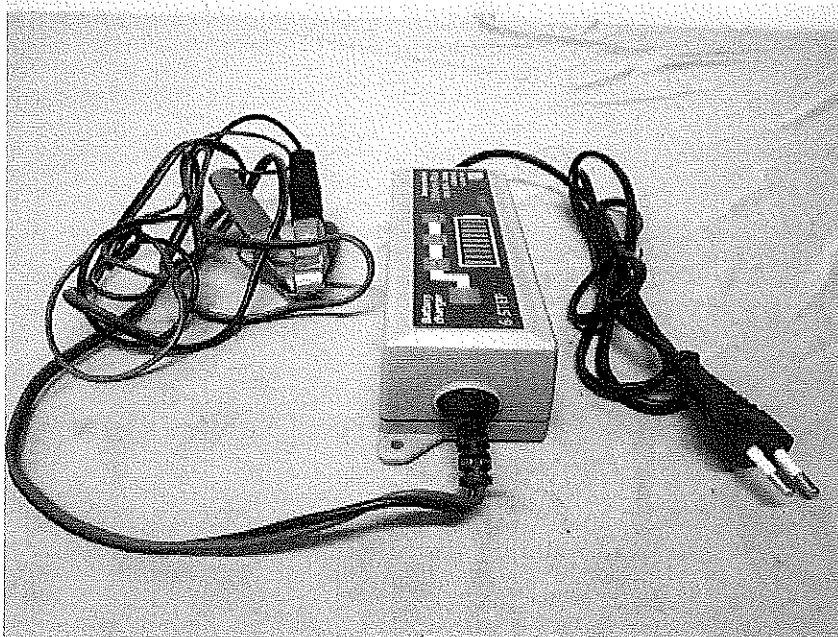
6. APPENDIX: Photos of the product



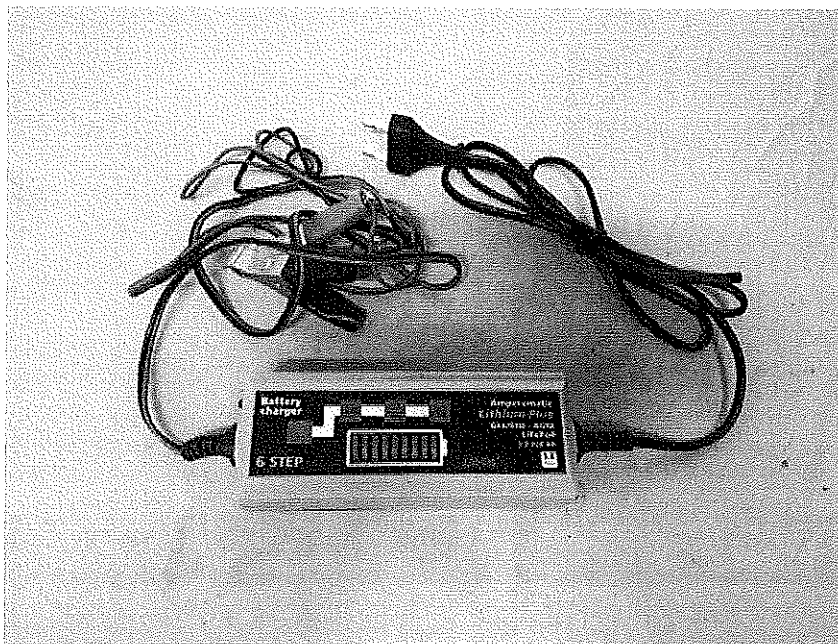
View 1



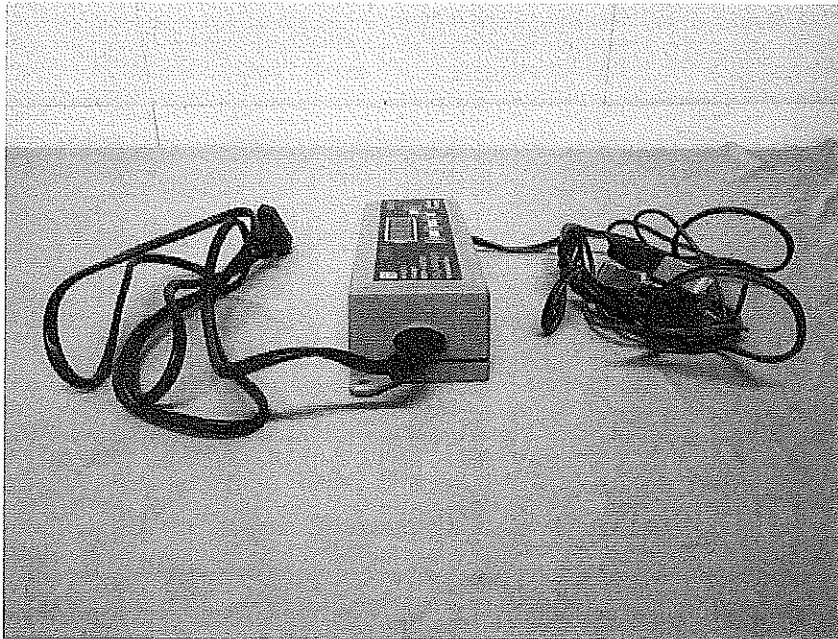
View 2



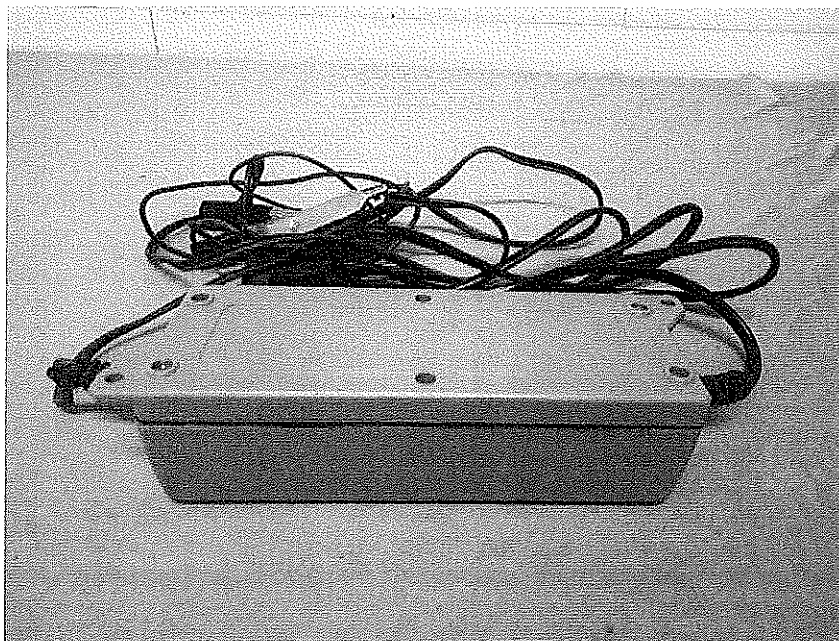
View 3



View 4



View 5



View 6

-End of the report-



SHENZHEN TIMEWAY TESTING LABORATORIES

EC DECLARATION OF CONFORMITY

Certificate Number: 1807008

We, the

Hangzhou Sunlight Tools Co., Ltd.

Address: Shanwu Industry Area Wenyan Town Xiaoshan District Hangzhou Zhejiang
China

Declare the Product

Description: Battery charger

Brand Name: N/A

Model No.: B6004#

Manufacturer: Hangzhou Sunlight Tools Co., Ltd.

Address: Shanwu Industry Area Wenyan Town Xiaoshan District Hangzhou Zhejiang China

Report Number: RoHS1807008

Complies with the requirements of the

The product fulfils the requirements of the RoHS Directive 2011/65/EU

RoHS Classification: II Small household appliances

General Remarks:

The tests were performed in normal operation mode. The test results apply only to the particular sample tested and to the specific tests carried out.

This certificate applies specifically to the sample investigated in our test reference number only.

The CE markings as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in article 10 of the Council Directive 93/68/EEC

Manufacturer/Importer



Test Laboratory



Signature

Jack Chen
For Chief Executive

Date of Issue: 2018-07-12

Certificate No: NSL-290518001-2-C
Issue Date: 25 July 2018



NEW-STANDARD
NO. 60, CHUANGYE STREET, NEW DISTRICT, SUZHOU, CHINA
TEL: +86-512-68022130 FAX: +86-512-68027530
E-MAIL: SERVICE@NSLAB.CN
HTTP://WWW.NSLAB.CN

Certificate of Conformity

EC TYPE-EXAMINATION
EMC DIRECTIVE: 2014/30/EU

Applicant & Manufacturer Information

Applicant: Hangzhou Sunlight Tools Co.,Ltd
Shanwu Industry Area, Wenyan Town, Xiaoshan District, Hangzhou,
Zhejiang, China

Manufacturer: Hangzhou Sunlight Tools Co.,Ltd
Shanwu Industry Area, Wenyan Town, Xiaoshan District, Hangzhou,
Zhejiang, China

Trade Mark: SUNSTORM

Product Information

Product Name: Battery Charger

Model(s): B6004#

Rating: Input: 230V~, 50Hz, 65W
Output: 12V DC, 3.8A

Testing According to Standard

Standard(s): EN 55014:2017
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013

Report No: NSL-290518001-2

Conclusions:

This product has been tested by Suzhou New-Standard Laboratory Co.,Ltd and complies with the requirements of the above specified standards and Electromagnetic Compatibility(EMC) 2014/30/EU. The CE Marking as showed below may be used if the products are complied with all relevant EC Directive



ANDY LU
LABORATORY DIRECTOR

THE CERTIFICATE IS BASED ON THE TYPE-EXAMINATION EVALUATION OF SAMPLES OF THE PRODUCT AND TECHNICAL DOCUMENTATION. THE MANUFACTURER HAS THE RESPONSIBILITY FOR ENSURING THAT ALL SERIAL MANUFACTURE OF THE PRODUCTS IS IN COMPLIES WITH THE SPECIFICATION OF THE SAMPLE SUBMITTED FOR TEST ASSESSMENT AND DETAILED IN THE TECHNICAL DOCUMENTATION. IF ANY UNAUTHORIZED MODIFICATIONS ARE MADE ON THE PRODUCTS, THIS CERTIFICATION IS AUTOMATICALLY CANCELLED. THE CERTIFICATE IS VALID FOR FIVE YEARS FROM THE DATE OF ISSUE, THE PERIOD NOT INCLUDE THE STANDARD UPDATE.