

# Japan Specified Radio Test Report

**Applicant** : Anker Innovations Limited

**Address** : Room 1318-19, Hollywood Plaza, 610 Nathan  
Road, Mongkok, Kowloon, Hongkong

**Product Name** : Anker SOLIX C800 Portable Power Station/  
Anker SOLIX C800 PLUS Portable Power  
Station

**Report Date** : Oct. 23, 2023

**Shenzhen Anbotek Compliance Laboratory Limited**



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## TEST REPORT

Applicant : Anker Innovations Limited

Manufacturer : Anker Innovations Limited

Product Name : Anker SOLIX C800 Portable Power Station/ Anker SOLIX C800 PLUS  
Portable Power Station

Test Model No. : A1754

Reference Model No. : A1753

Trade Mark : ANKER

Rating(s) : Please refer to page 7

Test Standard(s) : **MIC Notice No.88 Appendix No.43**  
**Article 2, paragraph 1, item 19**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the MIC Notice No.88 Appendix No.43 and Certificate regulation article 2, paragraph 1, item 19 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Sept. 26, 2023

Date of Test

Sept. 26 ~ Oct. 18, 2023

Prepared By

Tu Tu Hong

(TuTu Hong)

Approved & Authorized Signer

Edward Pan

(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 23, 2023



## 1. General Information

### 1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

### 1.2. Description of Device (EUT)

Product Name	:	Anker SOLIX C800 Portable Power Station/ Anker SOLIX C800 PLUS Portable Power Station
Test Model No.	:	A1754
Reference Model No.	:	A1753 (For models differences: A1754: with camping light and camping light interface A1753: without camping light and camping light interface The product name is Anker SOLIX C800 PLUS Portable Power Station and the model name is A1754. The product name is Anker SOLIX C800 Portable Power Station and the model name is A1753. According the model differences, we prepare "A1754" for test only.)
Trade Mark	:	ANKER
Test Power Supply	:	AC 100V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Hardware Version	:	V 3
Software Version	:	3.3.4
Adapter	:	N/A

#### RF Specification

Operation Mode	:	<input checked="" type="checkbox"/> BT BLE
Support Rate	:	<input checked="" type="checkbox"/> 1Mbps <input checked="" type="checkbox"/> 2Mbps
Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	3.65 dBi
Rated output Power	:	Bluetooth BLE_1M: 1mW Max. Bluetooth BLE_2M: 1mW Max.





**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) All of the RF specification are provided by customer.



## Rating(s):

## Anker SOLIX C800 PLUS Portable Power Station

Model/品番: A1754

Rated Capacity/ 定格容量: 51.2Vdc 15000mAh/768Wh

AC Input/ AC入力: 100-120V~ 12A Max, 50Hz/60Hz

AC Input Power (Charging)/ AC入力電力 (充電): 750W Max

AC Input Power (Bypass Mode)/ AC入力電力 (バイパスモード): 1200W Max

AC Input Power (Ultra Fast Charging)/ AC入力電力 (超急速充電): 1100W Max

XT60 Input/ XT60入力: 11-60V~10A (300W Max)

USB-A Output/ USB-A出力: 5V~2.4A Per Port

Car Charger Output/ シガーソケット出力: 12V~10A

USB-C Output 1: 5V~3A / 9V~3A / 15V~3A / 20V~3A / 20V~5A (100W Max)

USB-C Output 2: 5V~3A / 9V~3A / 12V~2.5A (30W Max)

Camping Light Charger Output/ キャンプライト出力: 5V~1A Per Port

AC Output (Bypass Mode)/ AC出力 (バイパスモード): 100V~ 12A Max, 1200W Max

AC Output (Inverter Mode)/ AC出力 (インバーター): 100V~ 12A, 50Hz/60Hz, 1200W Max

Discharging Temperature/ 動作温度 (機器の充電時): -4°F-104°F / -20°C-40°C

Charging Temperature/ 動作温度 (本製品の充電時): 32°F-104°F / 0°C-40°C

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WARNING - Do not overcharge the internal battery. See Instruction Manual. Do not smoke, strike a match, or cause a spark in the vicinity of the power pack. Only charge the internal battery in a well ventilated area.

CAUTION - Risk of Injury To Persons. Do not use this product if the power cord or the battery cables are damaged in any way.

CAUTION - This device is not intended for use in a commercial repair facility.

CAUTION: Risk of Electric Shock. Connect only to properly grounded outlets.

DANGER! This device is not waterproof. Use indoors if it is raining or the ground is wet outside.

AVERTISSEMENT - Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation. Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation. Charger la batterie uniquement dans un endroit bien aéré.

MISE EN GARDE : Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sont endommagés de quelque façon.

MISE EN GARDE : Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.

MISE EN GARDE : Risque de décharge électrique. Brancher l'unité uniquement à des prises de courant correctement mises à la masse.

DANGER ! Cet appareil n'est pas étanche. Utilisez-le à l'intérieur s'il pleut ou si le sol est humide à l'extérieur.



R 220-JP6682



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## ALWAYS HERE TO HELP

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## Anker SOLIX C800 Portable Power Station

Model/品番: A1753

Rated Capacity/ 定格容量: 51.2Vdc 15000mAh/768Wh

AC Input/ AC入力: 100-120V~ 12A Max, 50Hz/60Hz

AC Input Power (Charging)/ AC入力電力 (充電): 750W Max

AC Input Power (Bypass Mode)/ AC入力電力 (バイパスモード): 1200W Max

AC Input Power (Ultra Fast Charging)/ AC入力電力 (超急速充電): 1100W Max

XT60 Input/ XT60入力: 11-60V~10A (300W Max)

USB-A Output/ USB-A出力: 5V~2.4A Per Port

Car Charger Output/ シガーソケット出力: 12V~10A

USB-C Output 1: 5V~3A / 9V~3A / 15V~3A / 20V~3A / 20V~5A (100W Max)

USB-C Output 2: 5V~3A / 9V~3A / 12V~2.5A (30W Max)

AC Output (Bypass Mode)/ AC出力 (バイパスモード): 100V~ 12A Max, 1200W Max

AC Output (Inverter Mode)/ AC出力 (インバーター): 100V~ 12A, 50Hz/60Hz, 1200W Max

Discharging Temperature/ 動作温度 (機器の充電時): -4°F-104°F / -20°C-40°C

Charging Temperature/ 動作温度 (本製品の充電時): 32°F-104°F / 0°C-40°C

Anker Innovations Limited I Made in China

address: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

WARNING - Do not overcharge the internal battery. See Instruction Manual. Do not smoke, strike a match, or cause a spark in the vicinity of the power pack. Only charge the internal battery in a well ventilated area.

CAUTION - Risk of Injury To Persons. Do not use this product if the power cord or the battery cables are damaged in any way.

CAUTION - This device is not intended for use in a commercial repair facility.

CAUTION: Risk of Electric Shock. Connect only to properly grounded outlets.

DANGER! This device is not waterproof. Use indoors if it is raining or the ground is wet outside.

AVERTISSEMENT - Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation. Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation. Charger la batterie uniquement dans un endroit bien aéré.

MISE EN GARDE : Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sont endommagés de quelque façon.

MISE EN GARDE : Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.

MISE EN GARDE : Risque de décharge électrique. Brancher l'unité uniquement à des prises de courant correctement mises à la masse.

DANGER ! Cet appareil n'est pas étanche. Utilisez-le à l'intérieur s'il pleut ou si le sol est humide à l'extérieur.



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## 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
--	--





#### 1.4. Description of Test Configuration

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

Note: EUT was tested with channel 00, 19 and 39.

#### 1.5. Test Conditions

	Normal Test Conditions
Temperature	15°C - 35°C
Relative Humidity	45% - 75%
Pressure Range	86-106kPa



## 1.6. Test Voltage

### Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	AC 100V	AC 110V	AC 90V
Output To RF Module	DC 3.30V	DC 3.30V	DC 3.30V
Voltage Variation (%)	--	0.00%	0.00%

Note: Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage\* 100

For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.

## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
2.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
3.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
4.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	Feb.23, 2023	1 Year
5.	Oscilloscope	Tektronix	MDO3012	C020298	Oct. 12, 2023	1 Year
6.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 26, 2023	1 Year



**1.8. Description of Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

**FCC-Registration No.: 184111**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

**ISED-Registration No.: 8058A**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

**Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

**1.9. Disclaimer**

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





**1.10. Measurement Uncertainty**

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Frequency tolerance	74.60Hz
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



## 2. Summary of Test Results

Test Standard	Description of Test	Result
MIC Notice No.88 Appendix No.43 Article 2 Paragraph 1 Item 19	Frequency Tolerance	Complies
	Antenna power	Complies
	EIRP	Complies
	Antenna Power Tolerance	Complies
	Occupied Bandwidth	Complies
	Spread Bandwidth	Complies
	Spurious Emissions	Complies
	Carrier sensing function	N/A
	Interference prevention function	Complies
	Secondary Radiated Emissions	Complies
	Dwell Time	N/A
	Transmission Radiated Angle Width (3dB Beam Bandwidth)	N/A
	Antenna Absolute Gain	N/A

**Note:**

(1) N/A is an abbreviation for Not Applicable.

(2) This device have more than 1 subcarrier in 1MHz, compliance with the requirement.



### 3. Frequency Tolerance Test

#### 3.1. Test Limit

Test Limit	±50 ppm
------------	---------

#### 3.2. Test Setup



#### 3.3. Test Procedure

Test Frequency= test channel

RBW=VBW=10kHz

Span=500kHz

Sweep time=Auto

Detector mode=Positive peak

Indication mode=Max hold

#### 3.4. Test Data

**PASS**

Please refer to Appendix A of the Appendix Test Data.





## 4. Antenna Power Test

### 4.1. Test Limit

No.	Modulation Method	Frequency Range	Antenna Power	E.I.R.P
1.	FHSS(Compound method with DSSS or OFDM) (OBW within 83.5MHz)	2427-2470.75 MHz	3mW/MHz or less	6.91-16.91dBm/MHz
		2400-2483.5 MHz (except 2427-2470.75MHz)	10mW/MHz or less	12.14-22.14dBm/MHz
2.	DSSS (OBW within 26MHz)	2400 - 2483.5 MHz	10mW/MHz or less	12.14-22.14dBm/MHz
3.	OFDM (OBW within 26MHz)		10mW/MHz or less	12.14- - 22.14dBm/MHz
4.	OFDM (OBW 26-40MHz)		5mW/MHz or less	9.13-19.13dBm/MHz
5.	Other Digital methods (OBW within 26MHz)		10mW or less	12.14-22.14dBm
6.	Tolerance	-80% ~ +20%		

### 4.2. Test Setup



### 4.3. Test Configuration

#### 1. Search Frequency of Peak Power

Test Frequency: test channel,

RBW=VBW≥99% Occupy Bandwidth, Span=5MHz, Sweep time=Auto, Detector mode =Positive peak

#### 2. Measure of average burst power

Test Frequency: frequency of peak power

RBW=VBW=1MHz, Span=0Hz, Sweep time=Auto, Detector mode=RMS

#### 3. Antenna power= average burst power

### 4.4. Test Data

**Pass**

Please refer to Appendix B of the Appendix Test Data.



## 5. Occupied Bandwidth (99%) Test

### 5.1. Test Limit

Modulation type	Limit
FH:	83.5MHz or less
FH + DS:	83.5MHz or less
FH + OFDM:	83.5MHz or less
OFDM:	40MHz or less
Others:	26MHz or less

### 5.2. Test Setup



### 5.3. Test Procedure

Test Frequency= test channel

RBW=VBW=300kHz

Span=4MHz

Sweep time=Auto

Detector mode=Positive peak

Indication mode=Max hold

### 5.4. Test Data

**PASS**

Please refer to Appendix C of the Appendix Test Data.



## 6. Spread-Spectrum Bandwidth (90%) And Factor Test

### 6.1. Test Limit

Test Limit	Spread bandwidth: $\geq 500\text{kHz}$
------------	--

### 6.2. Test Setup



### 6.3. Test Procedure

Test Frequency= test channel

RBW=VBW=300kHz

Span=4MHz

Sweep time=Auto

Detector mode=Positive peak

Indication mode=Max hold

### 6.4. Test Data

**PASS**

Please refer to Appendix D of the Appendix Test Data.





## 7. Spurious Emissions Intensity Test

### 7.1. Test Limit

Frequency Range	Test Limit
≤2387MHz	≤2.5μW (-26dBm)
2387MHz to 2400MHz	≤25μW (-16dBm)
2483.5MHz to 2496.5MHz	≤25μW (-16dBm)
≥2496.5MHz	≤2.5μW (-26dBm)

### 7.2. Test Setup



### 7.3. Test Procedure

Test Frequency: test channel,

RBW=VBW=1MHz, Sweep time=Auto, Detector mode=Positive peak

### 7.4. Test Data

**Pass**

Please refer to Appendix E of the Appendix Test Data.

Note: SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format.

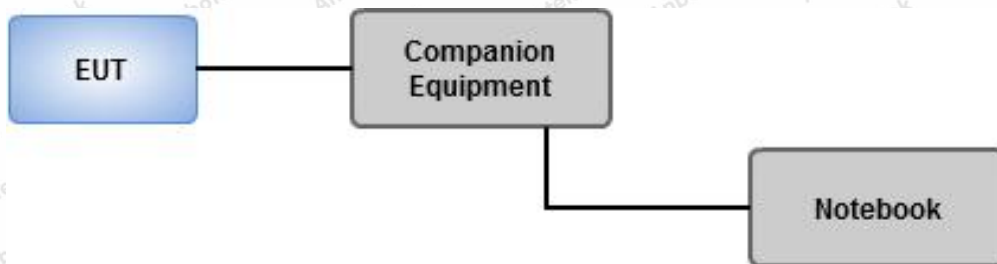


## 8. Interference prevention function

### 8.1. Test Limit

Test Limit	The identification code shall be 48 bits long
------------	---

### 8.2. Test Setup



### 8.3. Test Configuration

1. Set EUT under operating mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Record the max. reading.
4. Confirm the MAC address of EUT

### 8.4. Test Data

Test Mode	ID Code	Test Results
BLE	A1:08:3C:12:A5:C0	Complies



## 9. Secondary Radiated Emissions Test

### 9.1. Test Limit

Frequency Range	Test Limit
30~ 1000MHz	$\leq 4.0\text{nW}$ (-54dBm)
1000~ 12500MHz	$\leq 20\text{nW}$ (-47dBm)

### 9.2. Test Setup



### 9.3. Test Configuration

Test Frequency: test channel,

Below 1GHz, RBW=VBW=100kHz;

Above 1GHz, RBW=VBW=1MHz,

Sweep time=Auto, Detector mode=Positive peak

### 9.4. Test Data

Pass

Please refer to Appendix F of the Appendix Test Data.





## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

