

FCC Maximum Permissible Exposure (MPE) Estimation Report

Report Number : **6895025110701A** Date of Issue: **2025-08-26**

Model/HVIN : **A1783**

Product Type : **Anker SOLIX C2000 Gen 2 Portable Power Station**

Applicant : **Anker Innovations Limited**

Address : **Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,**
Central and Western District, HONG KONG

Manufacturer : **Anker Innovations Limited**
Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,

Address : **Central and Western District, HONG KONG**

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **9**

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1 Table of Contents

1 Table of Contents.....2

2 Details about the Test Laboratory3

3 Description of the Equipment Under Test.....4

4 General Information6

5 Test Specifications7

6 RF Exposure Requirements.....8

7 FCC MPE Limits.....9

8 RF Exposure Evaluation (FCC) 10

2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

FCC Registration No.: 514049

FCC Designation Number: CN5009

3 Description of the Equipment Under Test

Product:	Anker SOLIX C2000 Gen 2 Portable Power Station
Model no.:	A1783
FCC ID:	2AOKB-A1783
IC:	23451-A1783
PMN:	Anker SOLIX C2000 Gen 2 Portable Power Station
HVIN:	A1783
FVIN:	V1.0
Rating:	See below label for details
RF Transmission Frequency:	2402MHz-2480MHz for BLE 2412MHz-2462MHz for 2.4GHz Wi-Fi
No. of Operated Channel:	40 for GFSK 11 for 802.11b/g/n20 7 for 802.11n40
Modulation for BLE	GFSK
Modulation for 2.4GHz Wi-Fi	802.11b: BPSK, QPSK, CCK 802.11g/802.11n20/802.11n40: BPSK, QPSK, 16-QAM, 64-QAM
Antenna Type:	FPC Antenna
Antenna Gain:	3.53dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Anker SOLIX C2000 Gen 2 Portable Power Station supports Bluetooth Low Energy / Wi-Fi functions
Label:	

Anker SOLIX C2000 Gen 2 Portable Power Station

Model: A783 Rated Battery Capacity: 51.2Vdc/4000mAh/2048Wh

AC Input Power (Charging):

120V-15A Max, (<3 hours), 1800W Max, 12A (continuous), 60Hz, L+N+PE

AC Input/Output Port (Bypass Mode):

120V-15A Max, 1800W Max, 60Hz, (<3 hours when current exceeds 12A), L+N+PE

XT-60 Input: 11V-28V=8.2A; 28V-60V=17A Max, (800W Max)

Car Charger Output: 12V=10A

USB-A1 Output: 5V=2.4A (12W Max)

USB-C3 Output: 5V=3A (15W Max)

USB-C2 Output: 5V=3A / 9V=3A / 12V=3A / 15V=3A / 20V=5A / 28V=5A (140W Max)

USB-C1 Output: 5V=3A / 9V=3A / 12V=3A / 15V=3A / 20V=5A / 28V=5A (140W Max)

USB-A1 and USB C3 total output: 5V=4A (20W Max)

AC Output (Inverter Mode): 120V-20A, 60Hz, 2400W Max, L+N+PE

AC Output (TT-30): 120V-20A Max, 60Hz, 2400W Max

AC output power (total): 2400W Max.

Expansion Battery Port: 58.4Vdc, Max, 58A Max, 77A Max.

Discharging Temperature: -4°F to 104°F / -20°C to 40°C

Charging Temperature: 32°F to 104°F / 0°C to 40°C

For use with Anker SOLIX C2000 Portable Power Station Expansion Battery (2048Wh)

and Anker SOLIX F3000 Portable Power Station Expansion Battery (3072Wh) only

FCC ID: 2AOKB-A783 CAN ICES(B)/NMB(B) IC: 2343-A783

Anker Innovations Limited | Made in China

Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

FCC statement: The device complies with part 15 of the FCC Rules. Operation is

subject to the following two conditions: (1) This device may not cause harmful

interference, and (2) this device must accept any interferences received, including

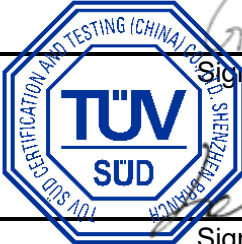
interference that may cause undesired operation.

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.**WARNING:** Risk of Electric Shock and Risk of Fire. Install in a temperature and humidity controlled indoor area relatively free of conductive contaminants. This device contains energy higher than 1 kWh. Suitable for Use in Residential Non-Habitable Spaces.**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.**AVERTISSEMENT:** Risque de choc électrique et risque d'incendie. Installer dans une zone intérieure contrôlée par la température et l'humidité relativement exempte de contaminants conducteurs. Cet appareil contient une énergie supérieure à 1 kWh. Convient pour une utilisation dans des espaces résidentiels non habitables.**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.**ALWAYS HERE TO HELP**<https://support.ankersolix.com>support@anker.com
support.me@anker.com
CE@-CN@anker.com
ie.support@anker.com(US/CA) +1 (800) 988-5541 English only
(États-Unis/Canada) +1 (800) 988-5541 Anglais seulement
(UK) +44 (0) 1616 056 301
(DE) +49 (800) 000 2522
(日本) +81 03 4455 7823



4 General Information

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Prepared By Project Engineer	2025-08-26	Grace Gao		<i>Grace Gao</i>
	Date	Name		Signature
Approved By Project Manager	2025-08-26	John Zhi		<i>John Zhi</i>
	Date	Name		Signature

5 Test Specifications

Test Standards	
ANSI Std C95.1-2019	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)
KDB 447498 D01	General RF Exposure Guidance v06
CFR § 2.1091	Radiofrequency radiation exposure evaluation: mobile devices.

6 RF Exposure Requirements

An estimation of MPE in this application for product is used to ensure if it complies with the rules of the standard in the regulation list above.

Maximum permissible exposure (MPE) refers to the RF energy that is acceptable for human exposure. It is broken down into two categories, Occupational/controlled and General population/uncontrolled.

Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

7 FCC MPE Limits

We analysis if it comply with the limits for General population/uncontrolled exposure. The FCC MPE limits for field strength and power density are given in 47CFR 1.1310(Table below). These limits are generally based on recommended exposure guidelines published by the National Council on Radiation Protection and Measurements (NCRP), and also partly based on guidelines recommended by the American National Standards Institute (ANSI) in Section 4.1 of ANSI/IEEE C95.1.

(A) Limits for Occupational/controlled Exposure				
Frequency Range(MHz)	Electric Field Strength(E)(V/m)	Magnetic Field Strength(H)(A/m)	Power Density (S)(mW/cm ²)	Averaging Time (minute) E ² , H ² or S
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/uncontrolled Exposure				
Frequency Range(MHz)	Electric Field Strength(E)(V/m)	Magnetic Field Strength(H)(A/m)	Power Density (S)(mW/cm ²)	Averaging Time (minute) E ² , H ² or S
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
f=frequency in MHz			*Plane-wave equivalent power density	

8 RF Exposure Evaluation (FCC)

8.1.1 Calculation of Power Density for Single Chain Transmitters

Mode	EIRP (dBm)	EIRP (mW)	R (cm)	S (mW/cm ²)	Limit (mW/cm ²)
BLE	8.67	7.36	20	0.00134	1.0
2.4GHz Wi-Fi	27	501.187	20	0.09971	1.0

Note: 2.4GHz Wi-Fi and BLE share the same antenna and do not support simultaneous transmission.

8.1.2 Conclusion

According to the table above, we can conclude that the limit percentage of above supporting frequency bands calculation results are less than 1, therefore, the product meets the requirements.