

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuh Street, Bao'an District, Shenzhen, China

RF Exposure MPE

CTA25022100904 Report Reference No.....: FCC ID.....:: 2A3R7-POWER200X

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Date of issue: Mar. 06, 2025

Shenzhen CTA Testing Technology Co., Ltd. Testing Laboratory Name.....:

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Address....::

Fuhai Street, Bao'an District, Shenzhen, China

SHENZHEN ISD TECHNOLOGY CO.,LTD Applicant's name.....:

5th Floor, Yutian Building, No. 18 Yangtian Road, Xin'an Street,

Baoan District, Shenzhen, Guangdong, China

47CFR §1.1310

47CFR §2.1091 Standard:

KDB447498 D01 General RF Exposure Guidance v06

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Test item description: **Desktop Charger**

Manufacturer: SHENZHEN ISD TECHNOLOGY CO.,LTD

Trade Mark N/A

Model/Type reference: POWER 200X

Input: AC 100-240V, 50/60Hz

USB-A Output: DC 5V-12V 2A 24W(Max)

TATESTIN USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max) Rating

USB-C3 Output: DC 5V-28V 5A 140W(Max)

Total output power: 200W Wireless charging: 15W (Max)

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TEST REPORT

TEST R

Equipment under Test : Desktop Charger

Model /Type : POWER 200X

Listed Models : POWER 200H, MD200X, MD200H

Model difference : The PCB board, circuit, structure and internal of these models are the

same, Only model number and colour is different for these model.

Applicant : SHENZHEN ISD TECHNOLOGY CO.,LTD

Address : 5th Floor, Yutian Building, No. 18 Yangtian Road, Xin'an Street,

Baoan District, Shenzhen, Guangdong, China

Manufacturer : SHENZHEN ISD TECHNOLOGY CO.,LTD

Address : 5th Floor, Yutian Building, No. 18 Yangtian Road, Xin'an Street,

Baoan District, Shenzhen, Guangdong, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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SUMMARY

General Remarks

CAL				
2.1 General Remarks		ATES		
Date of receipt of test sample	:	Feb. 21, 2025		TESTIN
Testing commenced on	:	Feb. 21, 2025		CTA
			C.	
Testing concluded on	:	Mar. 06, 2025	75 10.11	

	Tooking commenced on	1 00.21, 2020	
	Testing concluded on	: Mar. 06, 2025	CTATE
STING	2.2 Product Descrip	otion	
TATES	Product Description:	Desktop Charger	
	Model/Type reference:	POWER 200X	
	Power supply:	Input: AC 100-240V, 50/60Hz USB-A Output: DC 5V-12V 2A 24W(Max) USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max) USB-C3 Output: DC 5V-28V 5A 140W(Max) Total output power: 200W Wireless charging: 15W (Max)	
	Hardware version:	V1.0	
	Software version:	V1.0	
	Testing sample ID:	CTA250221009 -1# (Engineer sample) CTA250221009 -2# (Normal sample)	
	Bluetooth BLE		
	Supported type:	Bluetooth low Energy	
	Modulation:	GFSK	
	Operation frequency:	2402MHz to 2480MHz	
	Channel number:	40	CTP.
	Channel separation:	2 MHz	
- TEST"	Antenna type:	PCB antenna	
	Antenna gain:	1.32 dBi	
	The second second		

2.3 **Special Accessories**

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Des	scription	Manufacturer	Model	Technical Parameters	Certificate	Provided by
	/	/	/	/		/

Modifications

No modifications were implemented to meet testing criteria.

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	TING
Radiated Emission	18-40GHz	5.38 dB	(1)	ES!
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	
Output Peak power	30MHz~18GHz	0.55 dB	(1)	
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
		CTATEST		

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Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Occ	cupational/Control	led Exposure	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 /	1.63 4.89/f 0.163 /	(100) * (900/f²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Occ	cupational/Control	led Exposure	The state of the s
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30

F=frequency in MHz

4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna

CTA TESTING G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

Conducted Power Results

Туре	Channel	Output power (dBm)	
	00	-2.7	
GFSK 1Mbps	19	-3.21	
	39	-3.46	
		CTATES	11.

^{*=}Plane-wave equivalent power density

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Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
BLE	-2.7	-2.0±1

Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r = 20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

	Outp	ut power	Antenna	Antenna	MPE	MPE	
Modulation Type	dBm	mW	Gain	Gain	(mW/cm ²)	Limits	1G
	ubili	11177	(dBi)	(linear)	(IIIVV/CIII)	(mW/cm ²)	STING
BLE	-1.0	0.7943	1.32	1.3552	0.0002	1.0000	Э,
Remark:							
1. Output power (Peak) including turn-up tolerance;							
2. MPE evaluate dista	2. MPE evaluate distance is 20cm from user manual provide by manufacturer.						

Remark:

- 1. Output power (Peak) including turn-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

Simultaneous Transmission for MPE Result

N/A

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

******* End of Report **************