

Report No.: GZCR211202157502

Page: 1 of 8

FCC ID: 2AOK9-PN1010A

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2112021575AT

Applicant: 70mai Co., Ltd.

Address of Applicant: Room 2220, building 2, No. 588, Zixing road, MinHang District, Shanghai,

CHINA

Manufacturer: 70mai Co., Ltd.

Address of Manufacturer: Room 2220, building 2, No. 588, Zixing road, MinHang District, Shanghai,

CHINA

Factory: Guangdong Greenway Technology Co.,Ltd.

Address of Factory: Tongsha New Industry Park, Dongcheng Street, Dongguan City, Guangdong

Province, P.R. China

Equipment Under Test (EUT):

EUT Name: Power Station **Model No.:** PN1010A

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2021-12-10

Date of Evaluation: 2021-12-20 to 2021-12-24

Date of Issue: 2021-12-28

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Report No.: GZCR211202157502

Page: 2 of 8

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-12-28		Original	

Authorized for issue by		
Tested By	Cof Vhu	
	Curry Wu/Project Engineer	
Reviewed By	Ridge Liu	
	Ricky Liu/Reviewer	



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Report No.: GZCR211202157502

Page: 3 of 8

2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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Report No.: GZCR211202157502

Page: 4 of 8

3 Contents

EMC-TRF-03 Rev 1.0

	P	age
Cove	er Page	1
Eval	luation Summary	3
Con	tents	4
Gen	eral Information	5
4 1	Details of F LLT	F
	Evaluating Location	5
4.3	Facility	6
4.4	Deviation from Standards	6
4.5	Abnormalities from Standard Conditions	
Tech	hnical Requirements Specification	7
5.1	RF Exposure Evaluation	7
5.1.1	1 Limit & Test Method	7
5.1.2	2 Conclusion	7
EUT	Constructional Details (EUT Photos)	8
	Eva Con Gen 4.1 4.2 4.3 4.4 4.5 Tecl 5.1 5.1.2	Cover Page Evaluation Summary Contents General Information 4.1 Details of E.U.T. 4.2 Evaluating Location 4.3 Facility 4.4 Deviation from Standards



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Report No.: GZCR211202157502

Page: 5 of 8

4 General Information

4.1 Details of E.U.T.

Power supply: AC Input: 800W Max,100-120V~,50/60Hz

DC Input: 200W Max,12-27V 10A Max

USB-A Output (x1): 5Vdc, 2.4A

USB-A QC Output (x1): 5Vdc, 3A / 9Vdc, 2A/ 12Vdc, 1.5A (18W

Max)

Type-C PD Output (x1): 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 3A / 15Vdc,

3A / 20Vdc, 3A (60W Max)

Type-C PD Output (x1): 5Vdc, 3A / 9Vdc, 2A / 12Vdc, 1.5A (18W

Max)

DC Output(5521x2): 13.6Vdc, 3A Max Car Port(x1): 13.6Vdc, 10A Max

AC Output (x3): 1200W (Surge 2400W),100-120V~, 50/60Hz

(Pure Sine Wave)

Cable(s): DC charge cable: 1.5m, unshielded

AC charge cable: 1.3m, unshielded

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 LE
Modulation Type: GFSK
Number of Channels: 40

Date Rate: 1Mbps, 2Mbps

Channel Spacing: 2MHz

Antenna Type: PCB Antenna

Antenna Gain: 0.5dBi

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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Report No.: GZCR211202157502

Page: 6 of 8

4.3 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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Report No.: GZCR211202157502

Page: 7 of 8

5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

The Max. power (including tune-up tolerance) is 5.64 dBm on the highest chann 2.48 GHz (*) 5.64 dBm logarithmic terms convert to numeric result is nearly 3.66 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [Vf(GHz)]

General RF Exposure = $(3.66 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 1.15$

(1)

SAR requirement:

 $S = 3.0 \tag{2}$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR211202157501



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Report No.: GZCR211202157502

Page: 8 of 8

6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2112021575AT

- End of the Report -



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