

FCC Test Report

For

Shenzhen EcoFlow Technology Limited

Ecoflow solar panel

Model No.: EF-Flex-100, EF-Flex-85

Prepared For : Shenzhen EcoFlow Technology Limited

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Date of Test : Dec. 19~24, 2018

Date of Report : Dec. 24, 2018



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Code: AB-EMC-04-a



TEST REPORT

Applicant : Shenzhen EcoFlow Technology Limited

Manufacturer : Shenzhen EcoFlow Technology Limited

Product Name : Ecoflow solar panel

Model No. : EF-Flex-100, EF-Flex-85

Trade Mark : N.A.

Rating(s) : DC 18.2V, 5.5A

Test Standard(s) : FCC Rules and Regulations Part 15 Subpart B: 2018

Test Method(s) : ANSI C63.4-2014

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

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

Prepared By:

Reviewer:

Dec. 19~24, 2018

(Engineer / Alice Yu)

Well Wang)

Approved & Authorized Signer:

(Manager / Sally Zhang)



1. General Information

1.1. Client Information

Applicant	:	Shenzhen EcoFlow Technology Limited
Address	:	Room 607, Block G3, TCL Science Park International E city, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen EcoFlow Technology Limited
Address	:	Room 607, Block G3, TCL Science Park International E city, Nanshan District, Shenzhen, China
Factory	:	Shenzhen EcoFlow Technology Limited
Address	:	Room 607, Block G3, TCL Science Park International E city, Nanshan District, Shenzhen, China

1.2. Description of Device (EUT)

101		N TO VIEW MAN NO. BY
Product Name	:	Ecoflow solar panel
Model No.	:	EF-Flex-100, EF-Flex-85
		(Note: All samples are the same except the model number & appearance, so we
		prepare "EF-Flex-100" for test only.)
Trade Mark	:	N.A. Andrek Andrek Andrek Andrek Andrek
Test Power Supply	:	DC 18.2V
Test Sample No.	:	Slotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product	:	Adapter: N/A
Description		Anbotek Anbote Ant notek Anbotek Anbotek
100		No. 10 Per la contraction de l

Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

- (2) Once the new report takes into force, the original report withdraw
- (3) This report is based on original report SZAIE181218003-01.
- (4) Both reports are the same except updated the Product Name.

1.3. Auxiliary Equipment Used During Test

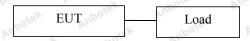
N/A	otek	Anbotek	Anbor	ek An	abotek	Anbote	in the	inbo otek	Nup.



1.4. Description of Test Mode

	Pretes	t Mod	e			Description		
10	Mo	de 1	Anbore	And	Anbotek	And On tel	A. abotek	Anboten A

For Mode 1 Block Diagram of Test Setup



1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	ek Wooten	N
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	Potek
P) Indicates "PASS". N) Indicates "Not applicable".	Anbotek Anb	otek Anbotek

1.6. Test Equipment List

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 ^{Anh}	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Nov. 05, 2018	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 05, 2018	1 Year
Andote	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
		K Anbotek Anbotek Anbotek Anbotek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB
Disturbance Uncertainty	:	Ud = 3.4 dB



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 registed 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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



2. Radiated Emission Test

2.1. Test Standard and Limit

he i ale vine vine hos Air	Test St	andard	FCC Part 15 Su	ıbpart B	Anbotek	Anboten	Ambabotek	Anbotek	
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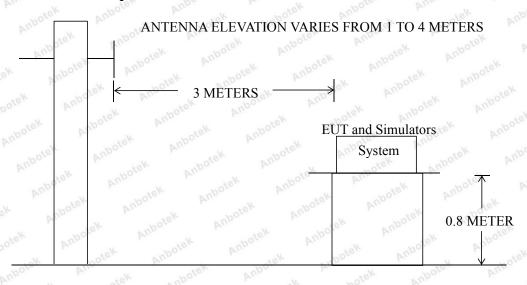
Radiated Emission Test Limit (Subpart B Class B)

Pr.	-50	100	(D) 1	40.5	200	
				FIELD STRENGTHS		
	Frequency	DISTANCE	LIMIT			
	(MHz)	(Meters)	μV/m	(dBµV/m)		
Test I	Test Limit	30 ~ 88	nbote A3	100	40	
	88 ~ 216	Anbotek 3Anbo	150	43.5		
	216 ~ 960	Anbotek 3 Anbote	200	46		
	960 ~ 1000	abotek3 Anbore	500	54		

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
- (4) 3M Limit=10M Limit+k k=20log(D1/D2)=10 3M Limit=10M Limit +10 (D1=10M D2=3M)

2.2. Test Setup



GROUND PLANE

2.3. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.



2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

2.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test results are listed in Section 2.6.

2.6. Test Results

PASS

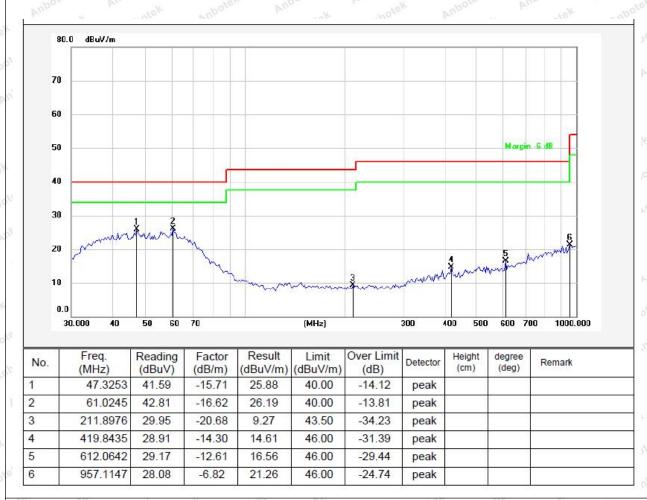
The test curves are shown in the following pages.



Test item: Radiation Test Polarization: Horizontal

Standard: (RE)FCC Part 15 Subpart B Power Source: DC 18.2V

Distance: 3m Temp.(℃)/Hum.(%RH): 23.6(℃)/57%RH

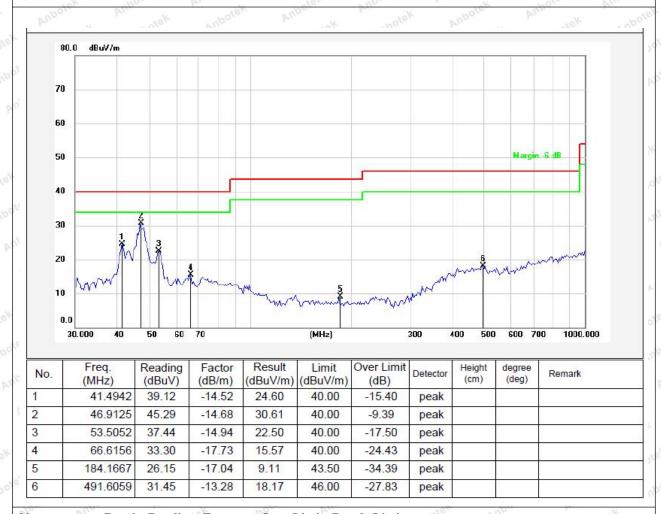




Test item: Radiation Test Polarization: Vertical

Standard: (RE)FCC Part 15 Subpart B Power Source: DC 18.2V

Distance: 3m Temp.(℃)/Hum.(%RH): 23.6(℃)/57%RH



Note: Result=Reading+Factor Over Limit=Result-Limit



APPENDIX I -- TEST SETUP PHOTOGRAPH





APPENDIX II -- EXTERNAL PHOTOGRAPH





-- End of Report -----