TEST REPORT

Reference No. : WTD22D05089750W002 V1

FCC ID : 2A6YT-EB150P

Applicant: ProVista Technology International Ltd.

Address...... Unit J, 33/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon,

..... Hong Kong

Manufacturer : DONGGUAN PROTRONIC ELECTRONICS LTD.

Address : Protronic Building, Xiangxi Village, Shipai Town, Dongguan City,

Guangdong Province, P.R. China

Product.....: Solar Power Generator

Model(s). : EB150P, SGI505

Standards..... : FCC 47CFR Part 2 Subpart J Section 2.1091

Date of Receipt sample : 2022-05-10

Date of Test : 2022-05-21 to 2022-05-23

Date of Issue : 2022-06-28

Test Result.....: Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By: Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Tel: +86-769-2267 6998 Fax: +86-769-2267 6828

Approved by:

Compiled by:

Ford Wang / Project Engineer

Ford Wang

id / Designated Reviewer

2 Contents

1	COVI	ER PAGE	Page
		TENTS	
2	CON	IENIS	2
3	REVI	SION HISTORY	3
4	GENI	ERAL INFORMATION	4
	4.1	GENERAL DESCRIPTION OF E.U.T	4
	4.2	DETAILS OF E.U.T	
	4.3	TEST FACILITY	
	4.4	SUBCONTRACTED	
	4.5 4.6	ABNORMALITIES FROM STANDARD CONDITIONS	
		SUMMARY	
6		PMENT USED DURING TEST	
	61	EQUIPMENTS LIST	
	6.2	DESCRIPTION OF AUXILIARY EQUIPMENT	
7	RF E	XPOSURE	
	7.1	THE PROCEDURES / LIMIT	8
	7.2	EUT OPERATION	
	7.3	TEST SETUP	
	7.4	EQUIPMENT APPROVAL CONSIDERATIONS (CLAUSE 5 B) OF KDB 680106 D01 v03	
	7.5	TEST RESULT	
8	PHO.	FOGRAPHS OF TEST SETUP	11

Reference No.: WTD22D05089750W002 V1 Page 3 of 11

3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D05089 750W002	2022-05-10	2022-05-21 to 2022-05-23	2022-06-21	original	-	Replaced
WTD22D05089 750W002 V1	2022-05-10	2022-05-21 to 2022-05-23	2022-06-28	Version 1	Updated	Valid

Reference No.: WTD22D05089750W002 V1 Page 4 of 11

4 General Information

4.1 General Description of E.U.T

Product.....: Solar Power Generator

Model(s)..... : EB150P, SGI505

Model Difference.....: Only the model name is different.

Hardware Version......: 1.SGI505-CNTRL-V1.3

Software Version.....: eb150x-advance-V1.2

4.2 Details of E.U.T

Frequency Range.....: WPT 110-205kHz

Max. RF output power... : WPT 76.57dBµV/m@3m distance

Type of Modulation.....: Load Modulation

Antenna installation.....: Inductive loop coil Antenna

Wireless output..... : 10W Max.

Ratings.....: DC 12V from adapter

(Adapter Input: 100-240V~50-60Hz 1.0A)

DC 12V/24V

Adapter: Model No.: AK36WG-1200300U

Note: please refer to user manual and EUT photos for more details.

Reference No.: WTD22D05089750W002 V1 Page 5 of 11

4.3 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Services (Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Services (Shenzhen) Co., Ltd. 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 number 523476, September 10, 2019.

4.4 Subcontracted

Whether parts	of tests for the product have been subcontracted to other labs:
☐ Yes If Yes, list the	☑ No related test items and lab information:
Test Lab:	N/A
Lab address:	N/A
Test items:	N/A

4.5 Abnormalities from Standard Conditions

None.

4.6 Test Mode

Test Mode	Descriptions		
Idle mode (standby)	EUT alone powered by AC/DC adapter		
Charging mode	Full-load		

Note:

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst-data were recorded and reported.

Reference No.: WTD22D05089750W002 V1 Page 6 of 11

5 Test Summary

Test Items	Test Requirement	Result
Electric Field Strength (E) (V/m)	FCC CFR 47 part1subpart I §1.1310	PASS
Magnetic Field Strength (H) (A/m)	KDB 680106 D01 v03	PASS

Note: -

Reference No.: WTD22D05089750W002 V1 Page 7 of 11

6 Equipment Used during Test

6.1 Equipments List

RF EXPOSURE									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Valid			
1	Electric and magnetic field Analyzer	NARDA	EHP-200AC	180ZX10226	2022-05-20	1Year			

6.2 Description of Auxiliary Equipment

Equipment	Manufacturer	Model No.	Series No.
Wireless charging dummy load (10W Max.)	Waltek	/	1

Reference No.: WTD22D05089750W002 V1 Page 8 of 11

7 RF Exposure

7.1 The procedures / limit

FCC 47CFR part 1 Subpart I §1.1310: The criteria listed in the following table 1 shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(i) Limits for Occupational/Controlled Exposure							
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	<6			
300-1,500			f/300	<6			
1,500-100,000			5	<6			
(ii)	Limits for General F	opulation/Uncontro	lled Exposure				
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f ²)	<30			
30-300	27.5	0.073	0.2	<30			
300-1,500			f/1500	<30			
1,500-100,000			1	<30			

f = frequency in MHz. * = Plane-wave equivalent power density.

Note:

RF exposure compliance will need to be determined with respect to 1.1307(C) and (d) of the FCC rule s. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m, 1.63A/m).

7.2 EUT Operation

Operating Environment:

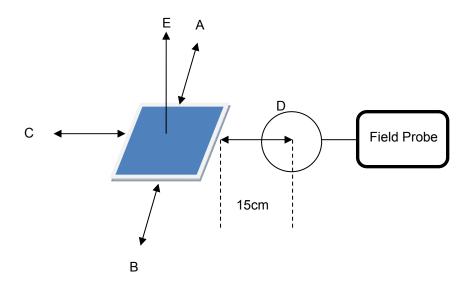
Temperature: 21.8 °C Humidity: 47.9 % RH

Atmospheric Pressure: 101.6kPa

EUT Operation: Charging mode 3

Only the worst-case transmitting mode were record in the report.

7.3 Test Setup



The RF exposure test was performed in anechoic chamber or shielding room.

The probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.

The EUT was put in different directions (Left, Right, Front, Rear, Top) to obtain the maximum reading.

The EUT was measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03.

7.4 Equipment approval considerations (clause 5 b) of KDB 680106 D01 v03

(1) Power transfer frequency is less than 1 MHz.

This device's frequency range is 110-205kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

The device has one coil antennas, one of which has a maximum output of 10W.

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

The device has one coils.

(4) Client device is placed directly in contact with the transmitter.

Client device is placed directly in contact with the transmitter.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Please refer to clause 7.5 test result.

Reference No.: WTD22D05089750W002 V1 Page 10 of 11

7.5 Test Result

E-Filed Strength (V/m)

Frequency	Test Position					Maximum
MHz	Α	В	С	D	Е	(V/m)
0.142	18.69	17.65	18.85	17.88	14.37	614

H-Filed Strength (A/m)

Frequency		Test Position					
	MHz	А	В	С	D	Е	Maximum (A/m)
	0.142	0.26	0.22	0.25	0.21	0.23	0.815

Reference No.: WTD22D05089750W002 V1 Page 11 of 11

8 Photographs of test setup

Note: Please refer to appendix: Appendix- EB150P -Photos.

=====End of Report=====