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Degrees of Protection Provided by Enclosures (IP code)



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated April 2017).


Standard Used :	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)
Date of Issue :	August 29, 2025
Result :	Pass (IP67)
Report Number :	GO25081402B
Test report number :	N/A

Approved by : _____

1. The test results of this report relate only to the tested sample identified in this report.
2. This report shall not be reproduced, in full or in portion, except for having written approval from Great One Global Certification Co. Ltd.
3. The data in report cannot be used for advertisement, publication and promotion.
4. Our laboratory is accredited to ISO 17025. The conformity decision rule of this test report does not include measurement uncertainty.



Test Report

Applicant's Name	FLEXWAVE CO., LTD
Applicant's Address.....	No. 332, Sec. 2, Fuxing E. Rd., Zhubei City, Hsinchu County 302052 , Taiwan (R.O.C.)
Manufacturer's Name.....	FLEXWAVE CO., LTD
Manufacturer's Address	No. 332, Sec. 2, Fuxing E. Rd., Zhubei City, Hsinchu County 302052 , Taiwan (R.O.C.)
Testing Laboratory	Great One Global Certification Co., Ltd.
Testing Address	7F-5, No.122, Qiaoh Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Tested by	Weijr Chen
Reported by	Weijr Chen
Approved by	Wenjenq Wang
Standard Used	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)
Test Item Description:	
Product Name.....	Arc-Solar Box P
Project Name	Arc-solar Box P, Enclosure-Integrated Energy Harvester
Trade Mark.....	
Main Measurement Model.....	2I0T0000W00031
Series Model	See Section "Description of model series"
Size	220 * 150 * 75 (mm)
Application Class Code.....	IP67
Testing:	
Date of receipt of test item	August 15, 2025
Date (s) of performance of tests :	August 15, 2025 to August 18, 2025






Summary of test content:

Description of model series:

The series models and the main test models only differ in size, and have the same waterproof structure, which does not affect the IP rating.

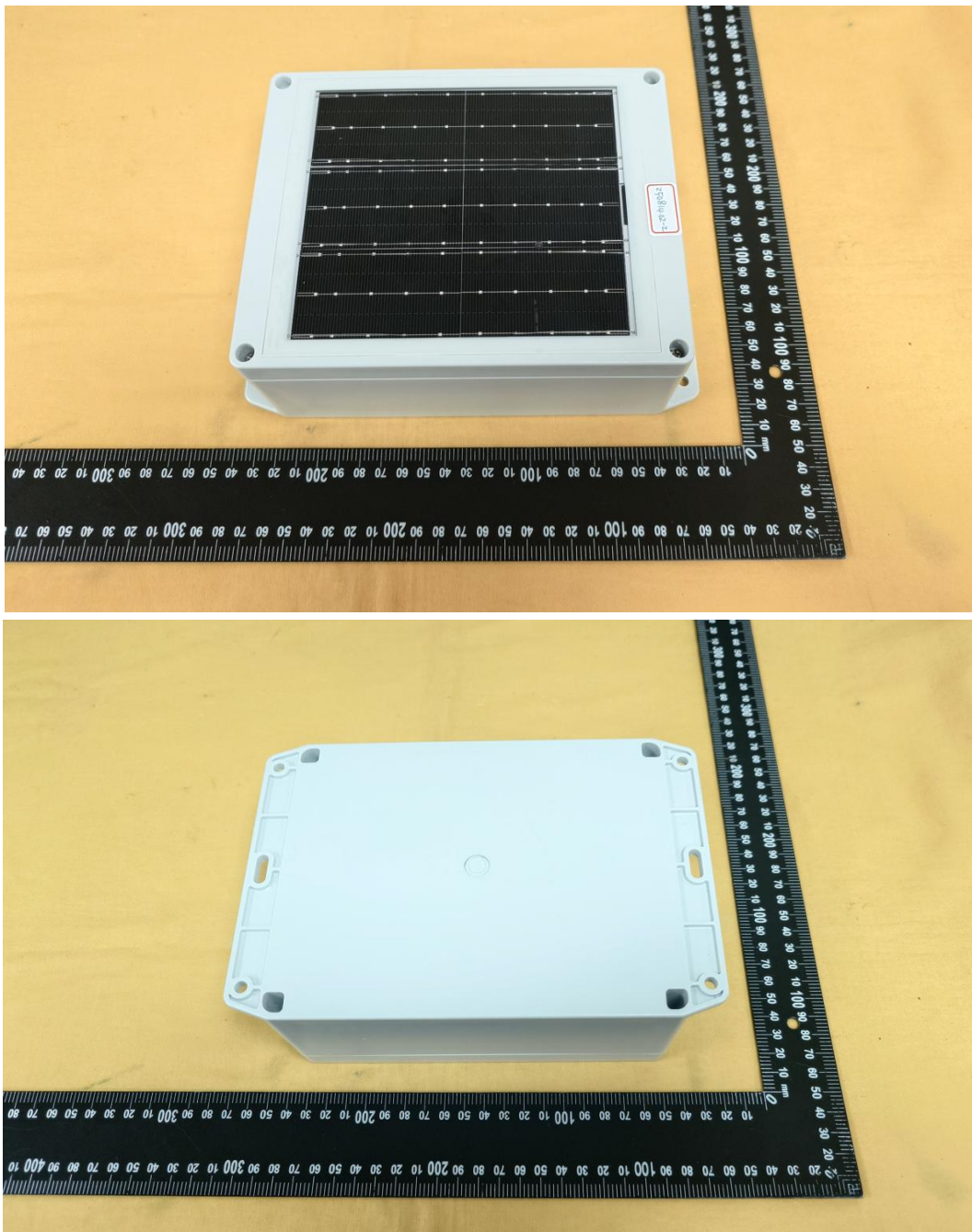
Series Model Differences Table

NO	Model No.	Model differences	Product Name	Trade Mark
1	2IOT0000W00031 (Main test model)	220mm*147mm*75mm, wing	Arc-Solar Box P	
2	2IOT0000W00051	220mm*147mm*55mm, wing	Arc-Solar Box P	
3	2IOT0000W00061	220mm*147mm*90mm, wing	Arc-Solar Box P	
4	2IOT0000W00071	220mm*147mm*110mm, wing	Arc-Solar Box P	
5	2IOT0000R00023	187mm*147mm*75mm	Arc-Solar Box P	
6	2IOT0000R00051	187mm*147mm*55mm	Arc-Solar Box P	
7	2IOT0000R00061	187mm*147mm*90mm	Arc-Solar Box P	
8	2IOT0000R00071	187mm*147mm*110mm	Arc-Solar Box P	



Photo

Sample number : 25081402-2





Ambient Temperature: 23.7-23.9 °C Humidity: 61-63 % RH

Air pressure : 100.29-100.63 kPa

**Degrees of protection against solid foreign objects indicated by -
the 1st characteristic numeral**

Category	Requirement + Test	Results - Remark	Verdict
	<ul style="list-style-type: none"> The test wire of diameter 1.0 mm shall not penetrate and adequate clearance shall be kept. 	The access probe of diameter 1.0 mm did not penetrate	Pass
<u>IP6X</u>	<ul style="list-style-type: none"> The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not. The chamber shall contain 2 kg of powder for every cubic metre of its volume ; The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75 µm ; The talcum powder shall not have been used for more than 20 tests. <p>The test shall proceed as follows : (a) Place the enclosure under test into the dust box and close the door. (b) Turn on the blower of the stone powder suspension to make the fan switch. (c) Detection time 8h. (d) At the conclusion of the test, verify that the interior of the enclosure under test is fully accessible. (e) The pumping pressure should not be greater than 2 kPa (20 mbar).</p>	<input checked="" type="checkbox"/> The protection was satisfactory if no deposit of dust was observable inside the enclosure at the end of the test	Pass



**Degrees of protection against water indicated by -
the 2nd characteristic numeral**

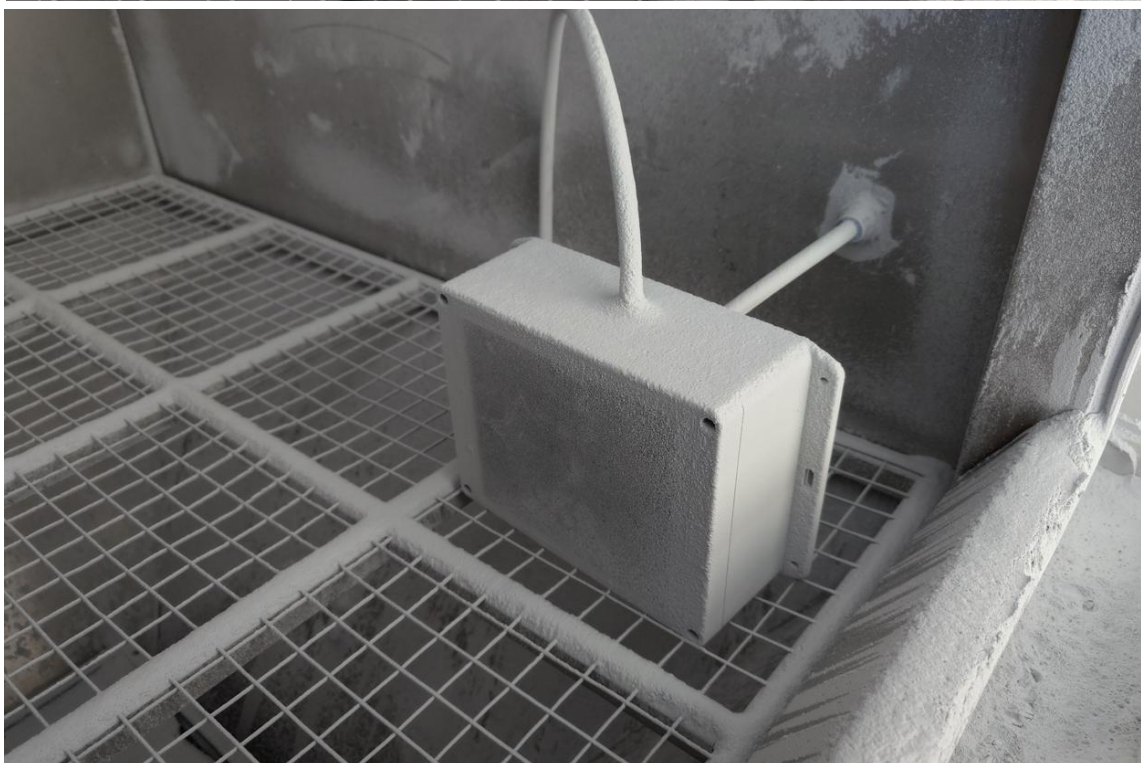
<u>IPX7</u>	<p>The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied:</p> <ul style="list-style-type: none">● the lowest point of enclosures is located 1000 mm below the surface of the water;● the duration of the test is 30 min;● the water temperature does not differ from that of the equipment by more than 5 K.	<p><input type="checkbox"/> No trace of water on electrical connections, current carrying parts or on insulation where it could become a hazard for the user or surroundings ;</p> <p><input checked="" type="checkbox"/> No trace of water having entered in any part of a watertight product.</p> <p><input type="checkbox"/> After the electric strength test, no flashover or breakdown occur during the test.</p>	Pass
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Photo

Sample number : 25081402-2

IP6X test result

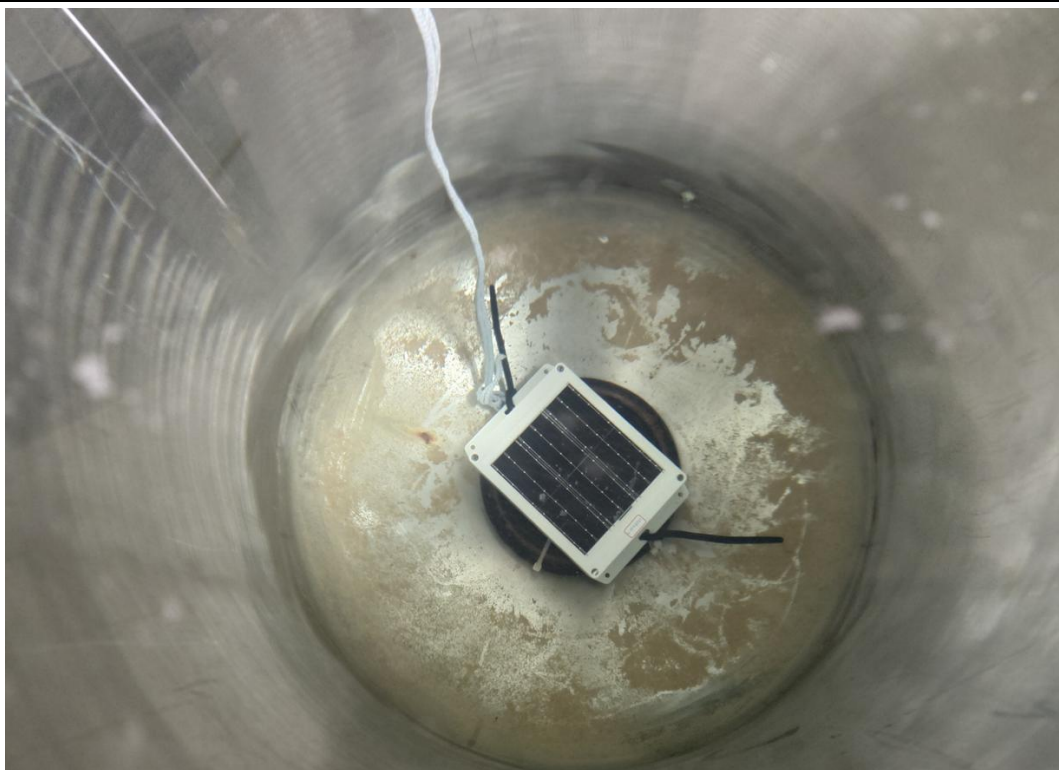






Sample number : 25081402-2

IPX7 test result





Equipment List

No.	Equipment ID	Equipment Type	Manufacturer /Model	Expiry Date	Remark
1	L048	IP4X test probe	Guangzhou / GR-F4D	2027-03-26	-
2	L049	IP56X dust tester	Guangzhou Great Testing Technology Co., Ltd./GR-IPPCA01	2026-03-04	-
3	L051	IPX78 water tester	Guangzhou Great Testing Technology Co., Ltd. / GR-IPX8A	2025-10-13	-

~ End of Report ~