

# TEST REPORT

## EN 60529

**Applicant:** Guangzhou Anern Energy Technology Co., Ltd  
**Address:** F5, Building B, No.2817 Kaichuang Avenue, Science Zone, Huangpu District, Guangzhou, China  
**Manufacturer:** Guangzhou Anern Energy Technology Co., Ltd  
**Address:** F5, Building B, No.2817 Kaichuang Avenue, Science Zone, Huangpu District, Guangzhou, China

**The following sample(s) was /were submitted and identified on behalf of the clients as :**

**Sample Name:** Solar street lights  
**Model Number:** AN-SLB-60W, AN-SLB-80W, AN-SLB-100W, AN-SLB-120W, AN-SLB-150W, AN-SLB-200W, AN-SLB-250W  
**Model difference:** All models are identical except the model's name and appearance.

**Test model:** AN-SLB-250W

**Sample Received Date:** December 30, 2024

**Testing Period:** December 30, 2024 to January 6, 2025

**Report No.:** YB250101004XY-IP-B1

**Test Requested:**

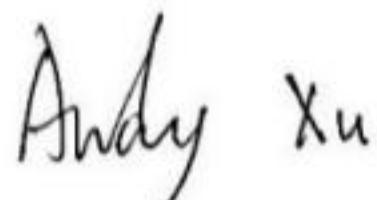
Test Sequence	Test Item
1	IP6Xtest
2	IPX6 test

**Test Method:** According to EN 60529:1991+A2:2013+AC:2019

**Test Result(s):** Please refer to the following page(s).

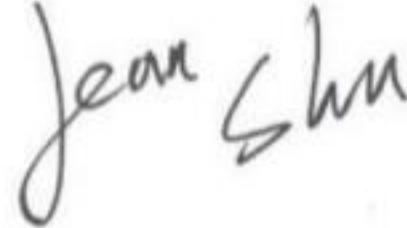
**Test Conclusion:** PASS

Compiled by:



Andy Xu

Reviewed by:



Jean Shu

Approved by:



Eric Sang/Manager

*This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen Youbest Testing Technology Co., Ltd.*

**1. Test item: IP6X test****(1) Detection equipment and instruments**

Instrument name	Model	Serial No.	Equipment manufacturers	Valid Date to
Test prober	Φ1.0mm	YB-SE078	Zhilitong	2025/04/30
Dust tester	WH-SC1000	YB-SE166	WEWON	2025/04/30

**(2) Environmental Conditions:**

Temperature: 24°C      Humidity: 56%RH

**(3) Tested Sample:** Sample 001**(4) Test Basis:** EN 60529:1991+A2:2013+AC:2019**(5) The test performed in accordance to the criteria listed above, and under the conditions as below:**

- 1) The Test prober of 1 mm diameter is pushed against any opening of the sample with force of 1 N;
- 2) Power on the sample 0.5~1h, to normal working temperature;
- 3) Set the samples in the dust chamber, The talcum powder to be used is 2 kg/ m<sup>3</sup> of the test chamber volume;
- 4) The blower causing the talcum powder to be in suspension is switch on; The test shall be continued for a period of 8h.
- 5) After test, the samples are switched off and allowed to cool for 3h whilst the talcum powder remains in suspension.

**(6) Test results**

Sample No.	Sample name	Test Results (visual observation)
001	Solar street lights	Test prober can not penetrate into opening of the samples. No dust entered into the sample, the sample passed the IP6X test.

**2. Test item: IPX6 test****(1) Detection equipment and instruments**

Instrument name	Model	Serial No.	Equipment manufacturers	Valid Date to
Water test device	PL-IPX6	YB-SE171	VINOPS	2025/04/30

**(2) Environmental Conditions:**

Temperature: 24°C      Humidity: 55%RH

**(3) Tested Sample:** Sample 002**(4) Test Basis:** EN 60529:1991+A2:2013+AC:2019**(5) The test performed in accordance to the criteria listed above, and under the conditions as below:**

- 1) Water flow: 100 L/min
- 2) Distance from nozzle to sample: 2.5 m~3 m
- 3) Nozzle inner diameter: 12.5 mm.
- 4) Turntable speed: 1 rpm.
- 5) Test time: 3 min

**(6) Test results**

Sample No.	Sample name	Test Results (visual observation)
002	Solar street lights	No water entered into the sample, the sample passed the IPX6 test.

## SAMPLE PHOTO(S):



**Photo 1**



**Photo 2**



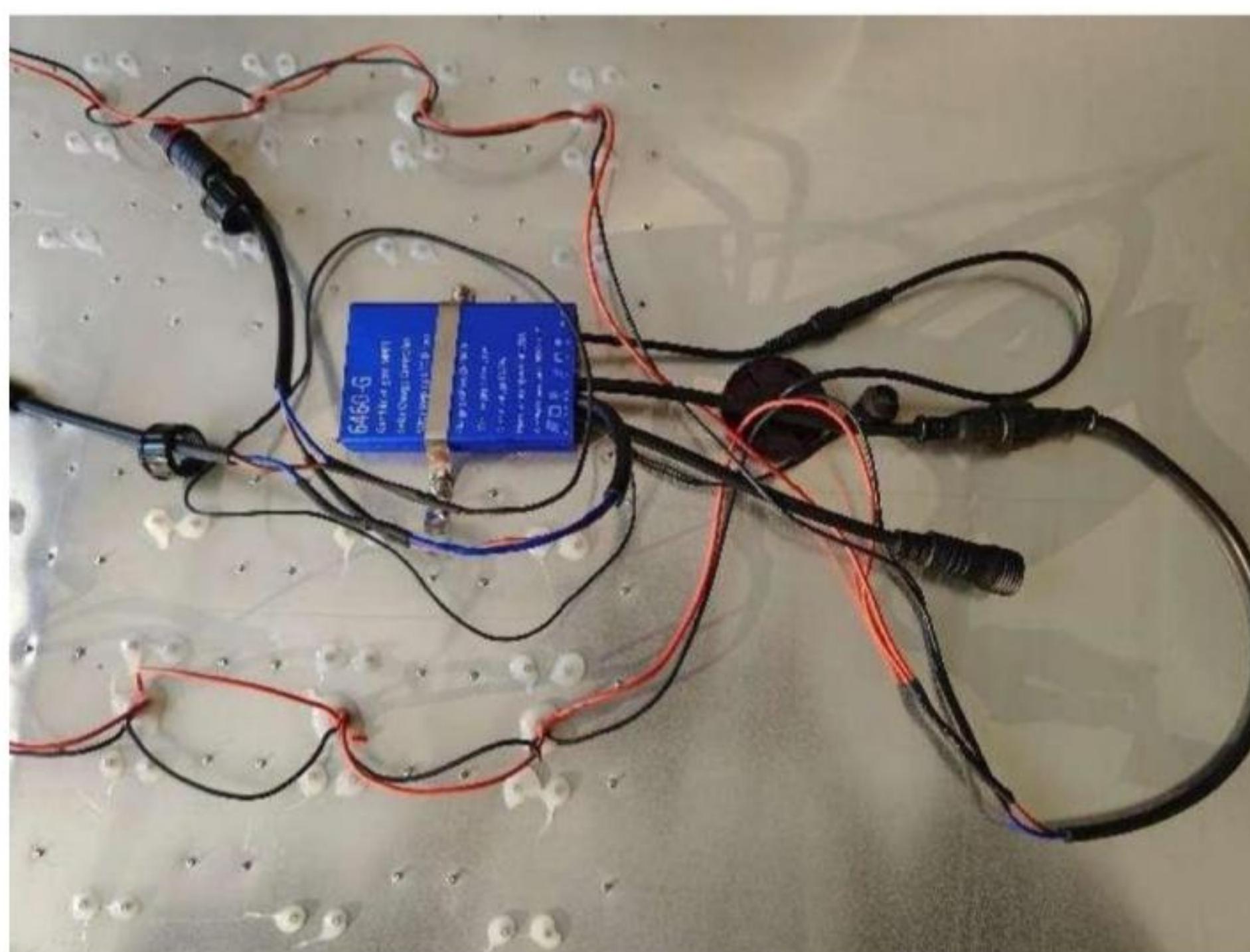
**Photo 3**



**Photo 4**



**Photo 5**



**Photo 6**

\*\*\*\*\* END OF REPORT \*\*\*\*\*