



中国认可
国际互认
检测
TESTING
CNAS L6214



**TEST REPORT
IEC 62262**

**Degrees of protection provided by enclosures for electrical equipment
against external mechanical impacts (IK code)**

Report Number.....: Q01A25071476L00201
Date of issue.....: 2025-10-20
Total number of pages.....: 6 pages

Name of Testing Laboratory preparing the Report.....: Guangdong GTG Testing Technology Co., Ltd.

Applicant's name.....: Shenzhen Fluence Lighting Technology Co., Ltd.
Address.....: B701, Building 1, Tian'an Digital City Innovation Park, No.475 Huangge North Road, Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen.

Test specification:
Standard.....: IEC 62262:2002+A1:2021
Test procedure.....: IK08,IK05 Test
Non-standard test method.....: N/A

Test Report Form No.....: 01-L-Q004-1A
Test Report Form(s) Originator.....: GTG
Master TRF.....: Dated 2024-01-19

General disclaimer:
The test results presented in this report relate only to the object tested.
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The authenticity of this Test Report and its contents can be verified by contacting the GTG, responsible for this Test Report.

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

<input checked="" type="checkbox"/>	Testing Laboratory:	Guangdong GTG Testing Technology Co., Ltd.
	Testing location/ address:	1-2/F., Building A, and 1/F., Building B, No.11, & Room 102, Unit 1, and Room 101 Unit 2, Building 1, No.9, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China
	Tested by (name, function, signature):	Jayson Zhou Project handler
	Reviewed by (name, function, signature):	George Liang Reviewer
	Approved by (name, function, signature) ...:	Jett Wu Authorized Signatory



Test item description :	Smart Bright Solar All-in-One Street Light	
Trade Mark :	--	
Manufacturer :	Shenzhen Fluence Lighting Technology Co., Ltd. B701, Building 1, Tian'an Digital City Innovation Park, No.475 Huangge North Road,Huanggekeng Community, Longcheng Street,Longgang District, Shenzhen.	
Model/Type reference :	CP-SL01-0055-E02S,CP-SL01-0080-E02S,CP-SL01-0125-E02S	
Ratings :	14-34.5VDC,IK08,IK05,55-125W	
List of Attachments (including a total number of pages in each attachment): Attachment 1: Photo		
Summary of testing:		
Tests performed (name of test and test clause): IEC 62262:2002+A1:2021	Testing location: Guangdong GTG Testing Technology Co., Ltd. 1-2/F., Building A, and 1/F., Building B, No.11, & Room 102, Unit 1, and Room 101 Unit 2, Building 1, No.9, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China	
Summary of compliance with National Differences: List of countries addressed N/A		

Test item particulars :	
Classification of installation and use : N/A	
Supply Connection : N/A	
Possible test case verdicts:	
- test case does not apply to the test object..... : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement..... : F (Fail)	
Testing :	
Date of receipt of test item : 2025-08-18	
Date (s) of performance of tests : 2025-08-18	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Huizhou Fluence Lighting Technology Co., Ltd. 4F, 1F, Workshop No. 3, Xingping West Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-Tech Zone, Huizhou	
General product information:	
- This product is suitable for indoor or outdoor use.	
- This product is suitable for mounting on normally flammable surfaces.	
- Only the most unfavorable results are recorded in this report.	
-Test model:CP-SL01-0125-E02S	

IEC 62262			
Clause	Requirement – Test	Result - Remark	Verdict
4	Mechanical impacts protection test		P
4.1	Arrangement of the IK code	IK08(The metal casing of the product, the plastic lampshade of the LED module and the solar photovoltaic module) IK05(Plastic housing of the sensor)	P
4.2	Impact energy	5J(The metal casing of the product, the plastic lampshade of the LED module and the solar photovoltaic module) 0.7J(Plastic housing of the sensor)	P
5	General requirements for tests		P
5.1	Atmospheric conditions for tests	23.2°C, 94 kPa	P
5.2	Enclosures under test	Each enclosure under test is in a clean and new condition, complete with all its parts in Place.	P
5.3	Specifications to be given in the relevant product standard		P
	-The definition of "enclosure" as it applies to the particular type of equipment		N/A
	-The test equipment (e.g. pendulum hammer, spring hammer or vertical hammer)	Pendulum hammer, Spring hammer	P
	-The number of samples to be tested	1 PCS	P
	-The conditions for mounting, assembling and positioning the samples, e.g. by the use of an artificial surface (ceiling, floor or wall), in order to simulate intended service conditions as far as possible		N/A
	-The pre-conditioning, if any, which is to be used		N/A
	-Whether to be tested energised		N/A
	-Whether to be tested with any moving parts in motion		N/A
	-The number of impacts and their points of application (see 6.4)		P
6	Test to verify the protection against mechanical impacts		P
6.1	The test specified in this standard is a type test.		P
6.2	In order to verify the protection against mechanical impacts, blows shall be applied to the enclosure to be tested.		P
6.3	During the test the enclosure shall be mounted on a rigid support, according to the manufacturer's instructions for use. A support is considered to be sufficiently rigid if its displacement is less than or equal to 0,1 mm under the effect of an impact directly applied and whose energy corresponds to the degree of protection. Alternative mounting and support, suitable for the product, may be specified in the relevant product standard.		P

IEC 62262			
Clause	Requirement – Test	Result - Remark	Verdict
6.4	The number of impacts shall be five on each exposed face unless otherwise specified in the relevant product standard. The impacts shall be evenly distributed on the faces of the enclosure(s) under test. In no case shall more than three impacts be applied in the surroundings of the same point of the enclosure. The relevant product standard shall specify the points of application of impacts.	Each exposed surface impacts 5 times. The impacted parts was evenly distributed on the test surface of the test shell. The impact applied near the same part on the shell was 3 times.	P
6.5	Test evaluation		P
6.5.1	The relevant product standard shall specify the criteria upon which the acceptance or rejection of the enclosure is to be based, particularly	Meet to requirement (After the test, the sample plastic enclosure were not damaged).	P
	-Admissible damages		N/A
	-Verification criteria relative to the continuity of the safety and reliability of the equipment		N/A

Attachment 1: Photo

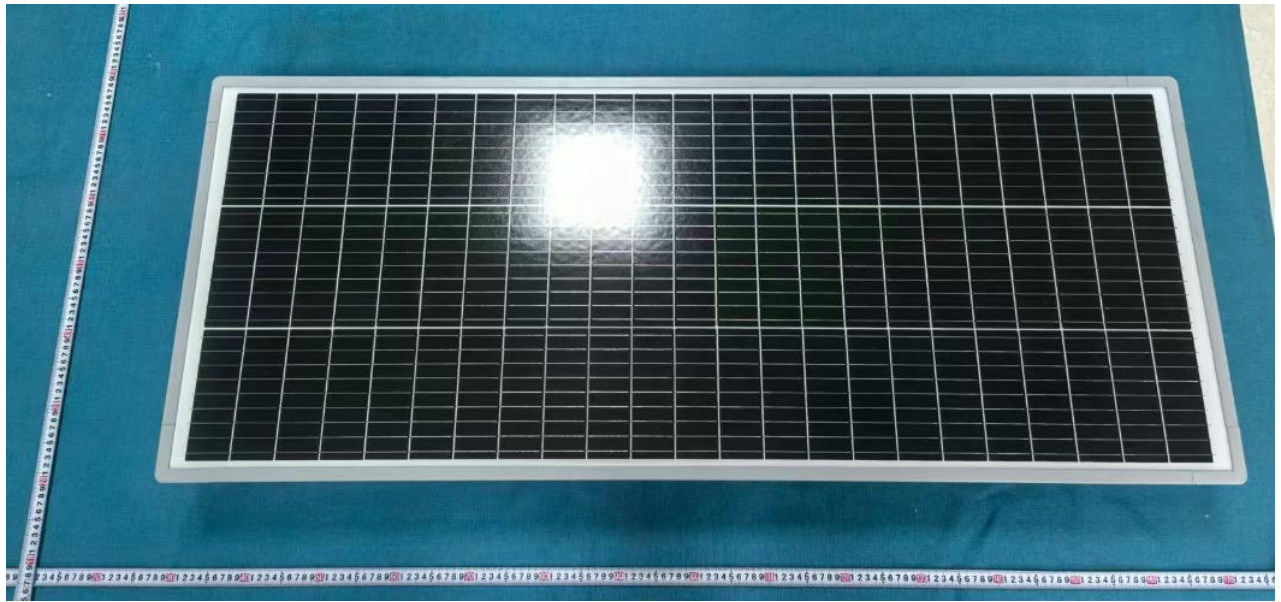


Figure 1: Outlook view



Figure 2: Outlook view
---End of Report---