TEST REPORT

Kunde: *Client:*	Shenzhen Gago Electronics Co., Ltd
Adresse: *Address:*	Room 301, Building1, Geya Technology Building, Matian Street, Guangming District, Shenzhen, China
Hersteller: *Manufacturer:*	Shenzhen Gago Electronics Co., Ltd
Adresse: *Address:*	Room 301, Building1, Geya Technology Building, Matian Street, Guangming District, Shenzhen, China
Name der Marke: *Brand Name:*	N/A
Beschreibungdes Produkts: *Product Description:*	Network Strobe Speaker
Modelle: *Models:*	GG-POEDC2SS-RGB
Bewertung: *Rating:*	DC9-36V, 50W
Gegenstand der Prüfung: *Test item:*	IP66 Test
Verfahren: *Method:*	IEC 60529:1989+A1:1999+A2:2013
Prüfergebnis*: *Test result*:*	Pass

Wareneingangsdatum: *Date of sample receipt*:	**Datum der Prüfung:** *Date of Test:*	**Datum der Emission:** *Date of Issue:*	**Klassifizierung:** *Classification:*
2025/10/14	2025/10/14	2025/10/15	Commission Test

Prüflabor (Testlabor) / Testing Laboratory:
Shenzhen Southern LCS Compliance Testing Co., Ltd.
Room 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Test von/Test by:	**Check von/**Check by:	**Genehmigt von/**Approved by:
Rose Cao	Torres He	
Rose Cao/ Project Engineer	Torres He/ Director	Jesse Liu/ Manager

Shenzhen Southern LCS Compliance Testing Laboratory Ltd. APPROVED

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Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB10105001S	/	Original Version

General product information: N/A

Equipment used during test:

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SC-500	2025/4/30
SLCS-S-095	Test needle(1mm)	AGPCD	2025/4/30
SLCS-S-034	IPX5, IPX6 waterproof equipment	JL-1/2	2024/12/14
SLCS-E-027	Temperature and humidity barometer	/	2025/4/22
SLCS-S-011	J Thermocouple	J	2025/4/28
SLCS-S-029	Temperature recorder	34970A	2025/4/30

Test Item:

Dust test for first characteristic numerals 6.

Atmospheric conditions for water or dust tests:

Air pressure: 86 kPa to 106 kPa

Temperature range: 15°C to 35°C

Relative humidity: 25 %RH to 75 %RH

Test samples:

Clean and new samples were tested

Test Method:

The test is made using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 um and the nominal width of a gap between wires 75 um. The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.

Enclosures are of necessity in one of two categories: Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, e.g., due to thermal cycling effects. Category 2: Enclosures where no pressure difference relative to the surrounding air is present.

Category 1 enclosures:

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump.

The suction connection shall be made to a hole specially provided for this test. If not otherwise specified in the relevant product standard, this hole shall be in the vicinity of the vulnerable parts If it is impracticable to make a special hole, the suction connection shall be made to the cable inlet hole. If there are other holes (for example, more cable inlet holes or drain-holes) these shall be treated as intended for normal use on site.

The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2 kPa (20 mbar) on the manometer shown in figure 2.

If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.

If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

Category 2 enclosures

The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.

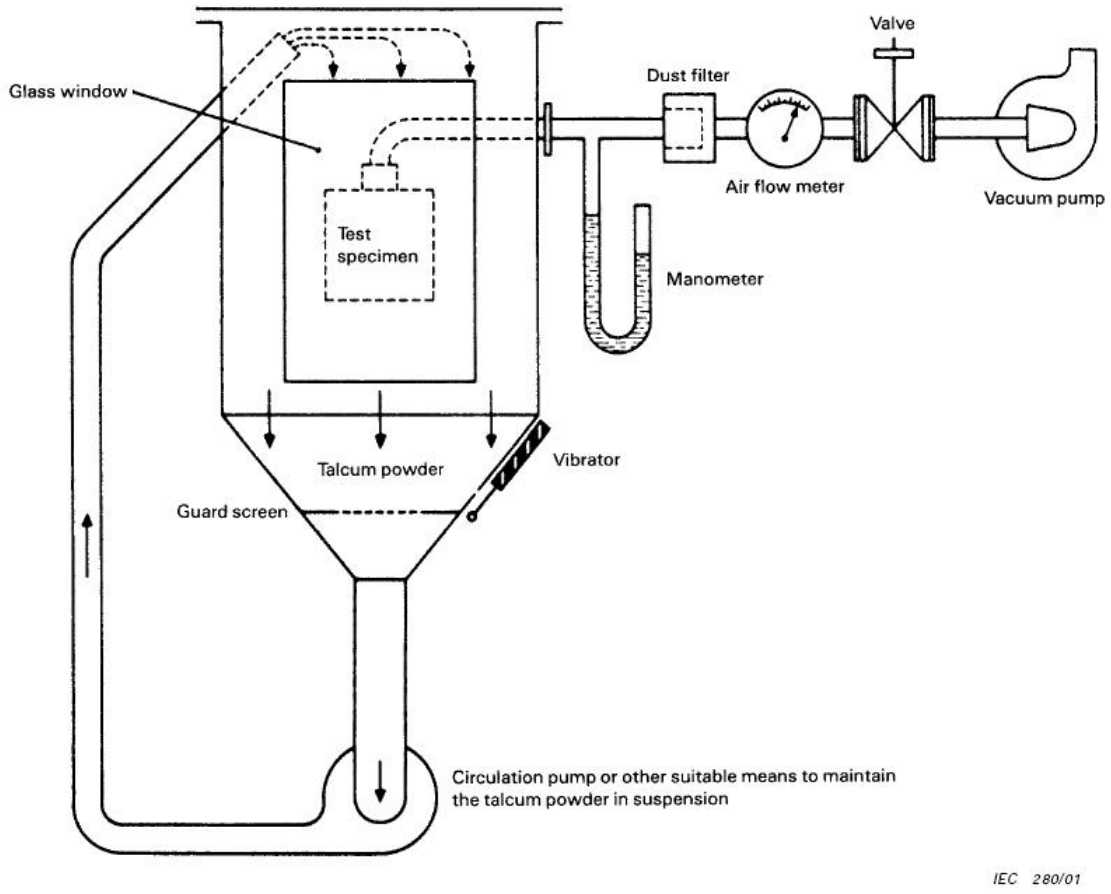
Acceptance Conditions:

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

The protection is satisfactory if the test wire of 1,0 mm φ shall not penetrate and adequate clearance shall be kept.

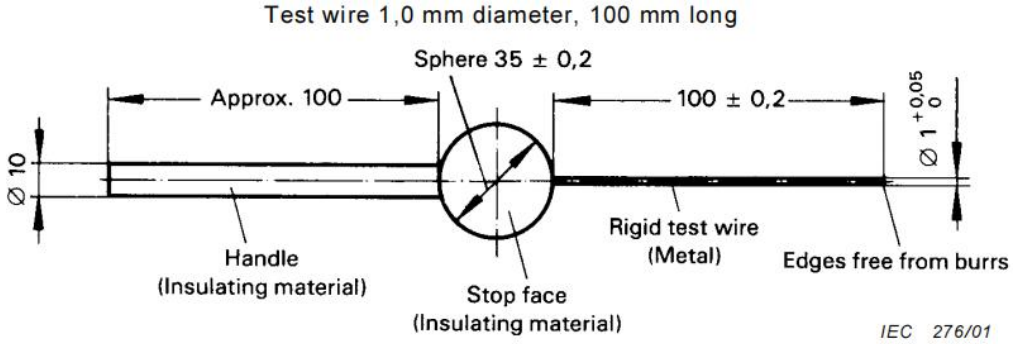
Test Result:

☒ **Pass** ☐ **Fail**



NOTE See IEC 60068-2-68, figure 2 valid for La2 only.

Figure 2 – Test device to verify protection against dust (dust chamber)



Test Item:

Test for second characteristic numeral 6 with the 12,5 mm nozzle

Atmospheric conditions for water or dust tests:

Air pressure: 86 kPa to 106 kPa

Temperature range: 15℃ to 35℃

Relative humidity: 25 %RH to 75 %RH

Test samples:

Clean and new samples were tested

Test Method:

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6.

The conditions to be observed are as follows:

– internal diameter of the nozzle: 12,5 mm;

– delivery rate: 100 l/min ± 5 %;

– water pressure: to be adjusted to achieve the specified delivery rate;

– core of the substantial stream: circle of approximately 120 mm diameter at 2,5 m distance from nozzle;

– test duration per square metre of enclosure surface area likely to be sprayed: 1 min;

– minimum test duration: 3 min;

– distance from nozzle to enclosure surface: between 2,5 m and 3 m.

Acceptance Conditions:

It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any. In general, if any water has entered, it shall not:

--be sufficient to interfere with the correct operation of the equipment or impair safety;

--deposit on insulation parts where it could lead to tracking along the creepage distances;

--reach live parts or windings not designed to operate when wet;

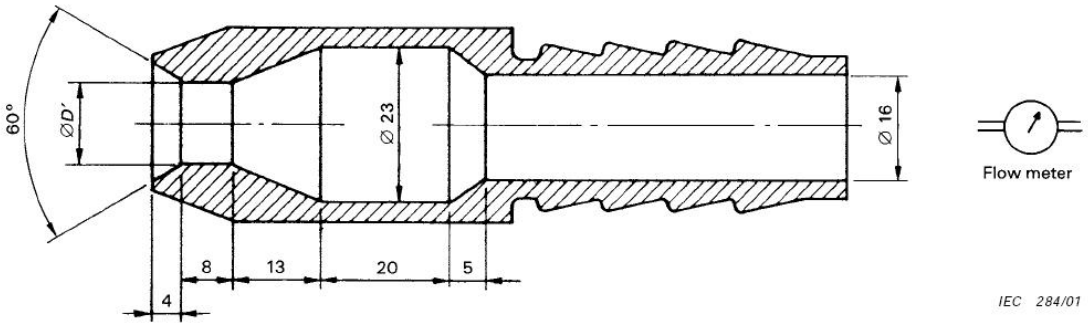
--accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if wate r can accumulate to reach live parts.

Test Result:

☒ **Pass** ☐ **Fail**



Dimensions in millimetres

D′ = 6,3 for the test of 14.2.5 (second characteristic numeral 5)
D′ = 12,5 for the test of 14.2.6 (second characteristic numeral 6)

Figure 6 – Test device to verify protection against water jets (hose nozzle)

Photo Documentation:

Photo 1: Overall view of model GG-POEDC2SS-RGB

Photo 2: Overall view of model GG-POEDC2SS-RGB

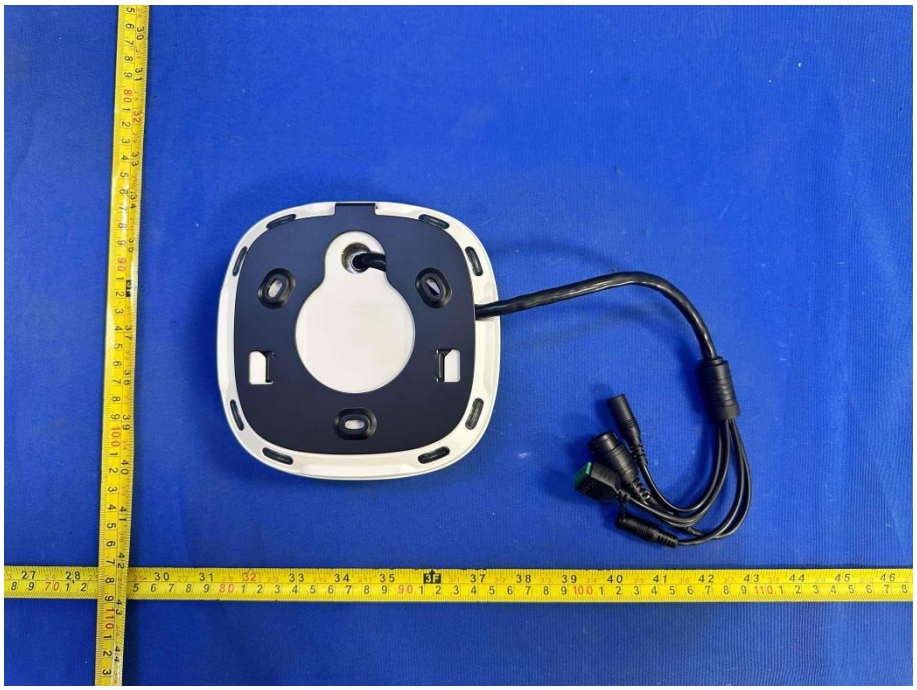


Photo Documentation:

Photo 3: IP6X test of model GG-POEDC2SS-RGB

Photo 4: IPX6 test of model GG-POEDC2SS-RGB

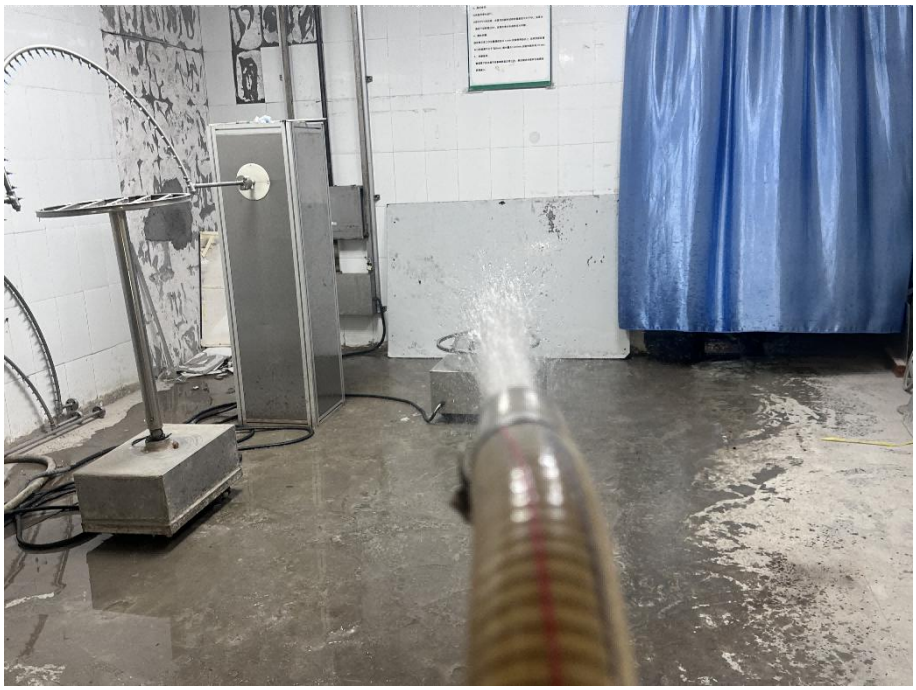


Photo Documentation:

Photo 5: Test result of IP6X and IPX6 test

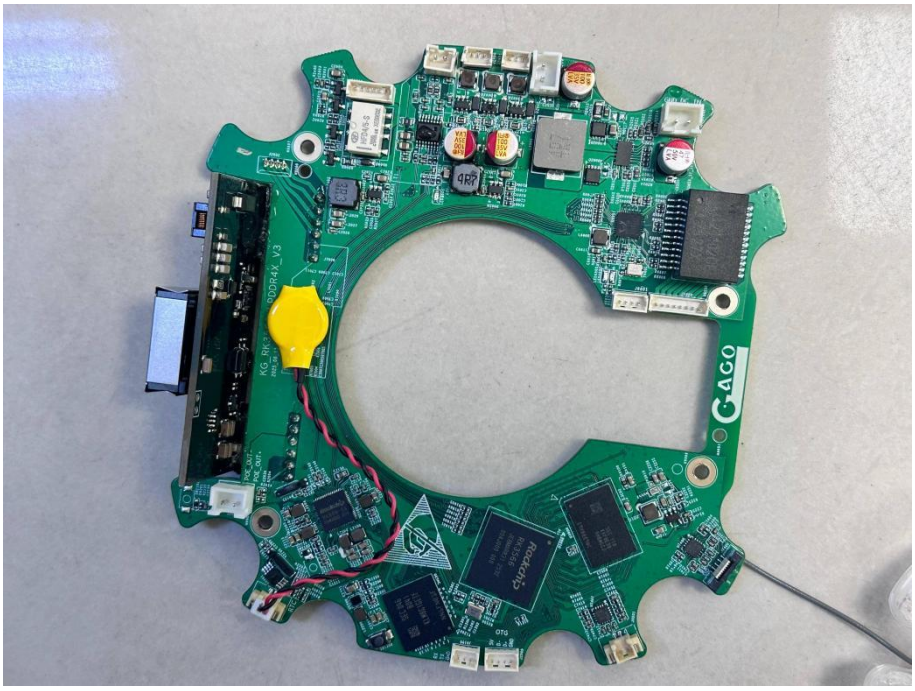
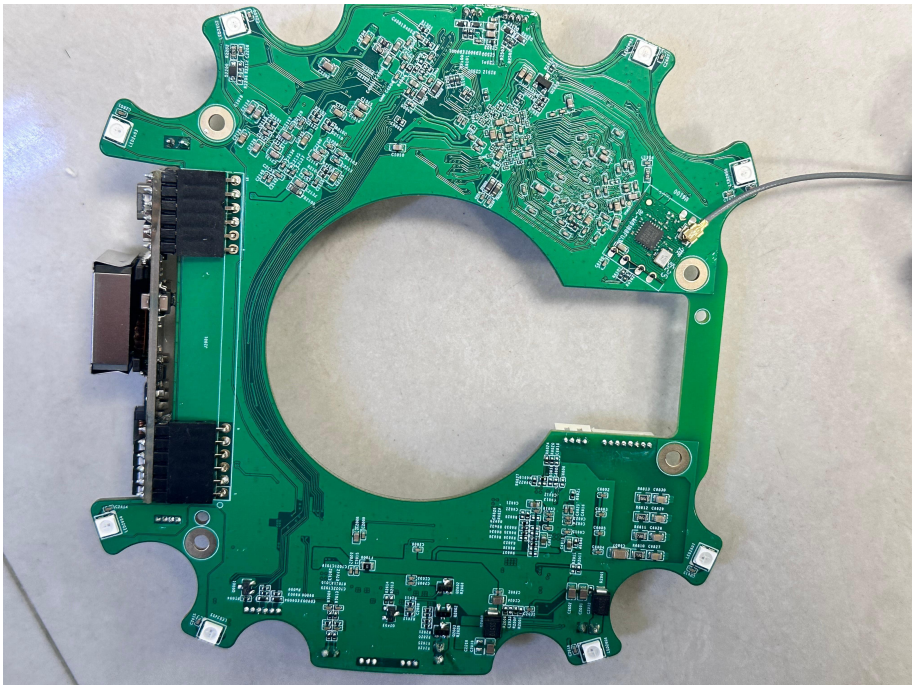


Photo 6:Test result of IP6X and IPX6 test



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