

Technical Report No.: 64.140.24.05497.01 Rev.00

Date: 2024-10-18

Client:	Name:	Guangdong Yuchen Optoelectronic Technology Co., Ltd
	Address:	Building 1, No.71, Taian Liyuan Rd, Zhangmutou Town, Dongguan City, Guangdong Province, P.R.China.
	Contact person:	Mr. Kevin
Manufacturer:	Name:	Same as client
	Address:	Same as client
	Contact person:	Same as client
Factory:	Factory Name:	Same as client
	Factory Address:	Same as client
	Contact person:	Same as client
	Test object:	Product:
	Model:	NF-*XXYYYZ
	Trade mark:	

Test specification: IK08 test of EN 62262:2002+A1:2021

Purpose of examination:

- Testing and evaluation according to the test specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see Testing, Certification, Validation and Verification Regulations, chapter A-3.3.

1. Description of the test object

1.1 Picture(s)

See appendix 1 from page 9 to 10

1.2 Function

LED strip light.

Manufacturer's specification for intended use:

According to user manual

1.3 Consideration of the foreseeable use

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment*
- ☐ Covered by attached risk analysis

*

1.4 Technical Data

Model	:	NF-*XXYYYYZ
IK code	:	IK08
Remark	:	NF means the structure of LED strip. * means LED model, it can be A, B, C, D, E, F, G, H, I, Z (A means 2110, B means 2216, C means 2835, D means 3014, E means 3030, F means 3528, G means 3535, H means 5050, I means 5630, Z means COB). XX=TW, RG, RW, WR, RE, GR, BL, YE, UV, PI, OR, MC or 00-99, (TW means Double color, RG means RGB, RW means RGBW, WR means WRGBW, RE means Red, GR means Green, BL means Blue, YE means Yellow, UV means Purple, PI means Pink, OR means Orange, MC means Mixed color, 00-99 means the yellow or white light color temperature 0-9900K,

For example 20 means 2000K, 35 means 3500K and so on).
YYY=LED Quantity (For example 060 means 60LEDs/m, 120 means 120LEDs/m, and so on).
Z=A, B, C, D or E (A means input voltage is 5VDC, B means input voltage is 12VDC, C means input voltage is 24VDC, D means input voltage is 36VDC, E means input voltage is 48VDC).

2. Order

2.1 Date of Purchase Order, Customer's Reference

2024-09-24

2.2 Test Sample(s)

- Reception date(s): 2024-10-08
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
- Condition of test sample(s): Complete

2.3 Testing

- Testing date(s): 2024-10-09 to 2024-10-17
- Location(s) of testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

☒ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.

3.1 Positive Test Results

Below tests were carried out on model NF-C30144C.

Report No.:
64.140.24.05497.01
Rev.: 00
Date: 2024-10-18

www.tuvsud.com



TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou, Guangdong 510656

Tel: +86 020 38320668

EN 62262:2002+A1:2021

4	Designations		/
4.1	Arrangement of the IK code		/
	The degree of protection provided by an enclosure against mechanical impacts is indicated by the IK code in the following way: Codes letters (international mechanical protection) Characteristic group numeral (00 to 11)		/
4.2	Characteristic group numerals of the IK code and their meanings		/
	Each characteristic group numeral represents an impact energy value as shown in table 1.		/
4.3	Application of the IK code		/
	Degree of protection applies to complete enclosure:	IK code (specified): IK 08	P
	If parts of the enclosure have differing degrees of protection, the latter is designated separately.	Enclosure part	Degree of protection (specified)
			IK
			IK
			IK
4.4	Marking		/
	In cases where the relevant product committee decides that the marking of the IK-code is required, the marking requirements are detailed in the relevant product standard.	Product standard:	N/A
	Where appropriate, such a standard should also specify the method of marking which is to be used when		N/A
	- one part of an enclosure has a different degree of protection to that of another part of the same enclosure,		N/A
	- the mounting position has an influence on the degree of protection.		N/A
5	General requirements for tests		/
5.1	Atmospheric conditions for tests		/

	Unless otherwise specified in the relevant product standard, the test is carried out under the standard atmospheric conditions for tests described in IEC 60068-1:		P
	- temperature range: 15 °C to 35 °C,		P
	- air pressure: 86 kPa to 106 kPa (860 mbar to 1 060 mbar).		P
	If altitude at which the test is performed is higher than 2 000 m,	Altitude: m	N/A
	the height of fall is adjusted where necessary to result in the specified impact energy.	Adjustments:	N/A
5.2	Enclosures under test		/
	Each enclosure under test are in a clean and new condition		P
	complete with all its parts in place		P
	unless otherwise specified in the relevant product standard.	Product standard:	N/A
5.3	Specifications to be given in the relevant product standard		/
	The relevant product standard specifies		/
	- 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, see clause 7);		N/A
	- the number of samples to be tested;		N/A
	- 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).		N/A
	In the absence of such specifications in the relevant product standard, the conditions of this standard applies.		N/A
6	Test to verify the protection against mechanical impacts		/
6.1	The test specified in this standard is a type test.		/
6.2	In order to verify the protection against mechanical impacts, blows are applied to the enclosure to be tested.		P
6.3	During the test the enclosure is mounted on a rigid support, according to the manufacturer's instructions for use.		P
	Alternative mounting and support, suitable for the product, is specified in the relevant product standard.	Product standard:	N/A
6.4	The number of impacts is five on each exposed face unless otherwise specified in the relevant product standard.	Product standard:	P
	The impacts are evenly distributed on the faces of the equipment(s) under test.		P
	In no case more than three impacts are applied in the surroundings of the same point of the enclosure.		P
	Relevant product standards specify the points of application of impacts.	Product standard:	N/A
6.5	Test evaluation		/
	The relevant product standard specifies the criteria upon which the acceptance or rejection of the enclosure is to be based, particularly	Product standard:	P
	- admissible damages	Criteria: IEC 60598-1 Clause 4.13	P
	- verification criteria relative to the continuity of the safety and reliability of the equipment,	Criteria: IEC 60598-1 Clause 4.13	P
	In the absence of these criteria, at least the following acceptance criterion applies:		/

	No damage is accepted that impairs the specified IP code.		P
7	Test apparatus		/
	The test is done by using one of the test apparatus described in IEC 60068-2-75.	Applied test apparatus: ☒ Pendulum hammer (cl. 5) ☐ Springhammer (cl. 6) ☐ Vertical hammer (cl. 7)	P
	The relevant product standard specifies which types of test apparatus are appropriate.	Product standard:	N/A

4. Test History

None.

5. Remarks

- 5.1** When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.
- 5.2** When measurement results are close to limit value of specified requirement, manufacturer shall take actions during the production process to keep the limit, especially if the result of a measurement is in a bandwidth within $\pm 10\%$ to the limit value.

6. Documentation

File	File name	Date
None.		

7. Summary

The test specifications are met



TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

Tested by: Kenny Chen, Project Handler

printed name, function & signature

Approved by: Jet Li, Designated Reviewer

printed name, function & signature



Appendix 1: Photos

Details of:	NF-C30144C	
View:		
☒ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

Details of:	NF-C30144C	
View:		
☐ General ☒ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		



Details of:	NF-C30144C	
View: ☐ General ☐ Front ☒ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

--- End of Report ---