TEST REPORT

Report No.:	N26073001801E
Product:	String light
Model No.:	See model list.
Applicant:	Shenzhen Tingsen Technology Co., Ltd.
Address:	Room C310, Building C, Phase II of Yunhui Center, No.146 Xuegang South Road, Xiangjiaotang Community, Bantian Subdistrict, Longgang District, Shenzhen City 518129, China
Issued by:	Shenzhen NTEK Testing Technology Co., Ltd.
Lab Location:	Building 1/2/11/12, No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
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TEST REPORT

Job Number. ..... :	N26073001801E
Tested by (name + signature) ..... :	Young Yin
Approved by (name + signature) ..... :	Alex Li
Date of issue ..... :	2026-08-26
Total number of pages ..... :	17 pages
Name of Testing Laboratory preparing the Report ..... :	Shenzhen NTEK Testing Technology Co., Ltd Building 1/2/11/12, No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name ..... :	Shenzhen Tingsen Technology Co., Ltd.
Address..... :	Room C310, Building C, Phase II of Yunhui Center, No.146 Xuegang South Road, Xiangjiaotang Community, Bantian Subdistrict, Longgang District, Shenzhen City 518129, China
Manufacturer's name..... :	Shenzhen Tingsen Technology Co., Ltd.
Address..... :	Room C310, Building C, Phase II of Yunhui Center, No.146 Xuegang South Road, Xiangjiaotang Community, Bantian Subdistrict, Longgang District, Shenzhen City 518129, China
Test specification:	
Standard ..... :	Standard for Safety Seasonal and Holiday Decorative Products [UL 588, 19th ed., Revision 2025-11-13]
Test procedure..... :	Type test
Non-standard test method.....	N/A
Test Report Form No. ..... :	-
Test Report Form(s) Originator.... :	NTEK
Master TRF ..... :	Dated 2025-11
Test item description..... :	String light
Trade Mark..... :	N/A
Model/Type reference..... :	See model list.
Ratings..... :	120VAC, 60Hz, 2A, Max. 40W, more infommation see model list.

Testing.....:

Date of receipt of test item.....: 2026-08-11

Date (s) of performance of tests .....: 2026-08-11~2026-08-25

General remarks:

The test results presented in this report relate only to the object tested.

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"(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 ☐ comma / ☒ point is used as the decimal separator.

General product information:

1. The products covered by this report are Plug in string light.
2. Used the Intertek Certified Class 2 power unit, model: MYX-2402000US
3. 120V, 60Hz, 2A, Max. 40W, infrared remote control.

Model list				
Item	Model	Rated power	Length	Power supply model
1	32.8FT	7W	10M	MYX-2402000US
2	50FT	8W	15M	
3	100FT	16W	30M	
4	150FT	20W	45M	
5	200FT	20W	60M	
6	300FT	35W	90M	
7	400FT	40W	120M	
8	500FT	40W	150M	
9	600FT	40W	180M	
10	string light	7W	10M	

Model Similarity:

1. All models have the same structure, but the length of the lamp is different.

Test Item:

No.1	Clause(s)	Test(s)	Remark	Comment
UL 588, 19th ed., Revision 2025-11-13				
1	6	Wire types ratings for series-connected seasonal lighting products	See table	Pass
2	7	Overcurrent Protection	Class 2 power unit UL1310	Pass
3	15	Strain Relief	-	N/A
4	40	Leakage Current Test	See table	Pass
5	41	Leakage Current Following Humidity Conditioning	See table	Pass
6	42	Input Test	See table	Pass
7	43	Temperature Test	See table	Pass
8	45	Dielectric Voltage-Withstand Test	See table	Pass
9	46	Strain Relief Test	See table	Pass
10	48	Abnormal Operation Test	See table	Pass
11	50	Downward Burning Rate Test	See table	Pass
12	51	Conductivity of Decorative Parts Test	See table	Pass
13	52	Routine Flexing Test	See table	Pass
14	56	Tests for Permanence of Cord Tag	See table	Pass
15	58	Enclosure Mold Stress Relief Test	See table	Pass
16	59	Drop Test	See table	Pass
17	60	Impact Test	See table	Pass
18	61	Cold Impact Test	-	N/A
19	63	Adhesive Test	See table	Pass
20	71	Strain Relief Test	-	N/A
21	79	Lampholder Strain Relief Tests	-	N/A
22	89	Rain Test	-	N/A
23	90	Rain Test For Series-Connected Lighting Strings	-	N/A
24	91	Standing Water Immersion Test	-	N/A
25	94	Ultraviolet (UV) Light Exposure and Water Immersion Tests	-	N/A
26	94.2	UV conditioning	-	N/A
27	94.3	Water immersion	-	N/A
28	SB15	Secureness of Leads Test	-	N/A

For UL 588

CONSTRUCTION (6)

Wire types ratings for series-connected seasonal lighting products

Wire types	With load fitting	Without load fitting	--	
			Pass	Fail
Wire of lights	20AWG 105°C 300V	--	√	
Power output wire	20AWG 105°C 300V	--	√	

Overcurrent Protection (7)

				Pass	
Location	Fuse rating	Fuse rating	Fuse Location	Pass	Fail
Adaptor	--	--	--	√	--
Class 2 Power Unit, UL 1310, need not be provided with integral overcurrent protection.					

Leakage Current Test (40)

Method:

EUT is operating at: U=Un, F=Fn.

Load of the EUT is under maximum normal load.

The input current and wattage to the EUT shall be measured

Location	Voltage	Measured current	Limit	--	
				Pass	Fail
Model: 600FT					
L/N and wire	120V	0.01mA	0.5mA	√	
L/N and lamp	120V	0.01mA	0.5mA	√	
L/N and enclosure of adaptor	120V	0.01mA	0.5mA	√	
L/N and adaptor output	120V	0.04mA	0.5mA	√	

Leakage Current Following Humidity Conditioning (41)

Method:

EUT is operating at: U=Un, F=Fn.

Load of the EUT is under maximum normal load.

The input current and wattage to the EUT shall be measured At humidity of 90% , temperature of 32°C, 48h

Location	Voltage	Measured current	Limit	--	
				Pass	Fail
Model: 600FT					
L/N and wire	120V	0.01mA	0.5mA	√	
L/N and lamp	120V	0.01mA	0.5mA	√	
L/N and enclosure of adaptor	120V	0.01mA	0.5mA	√	
L/N and output	120V	0.05mA	0.5mA	√	

INPUT TEST (42)

Method:

EUT is operating at: U=Un, F=Fn.

Load of the EUT is under maximum normal load.

The input current and wattage to the EUT shall be measured.

Multiple rated voltages or rated voltage range, each rated voltage shall be measured. The current and power shall be taken under steady state conditions.

42	TABLE: Electrical data (in normal conditions)						P
Model	U (V)	I (A)	I rated (A)	P (W)	Limit	Ifuse (A)	Condition/status
600FT	120V/60Hz	0.607	2.0	39.7	<110%	0.607	Normal load
Supplementary information:							

Temperature Test (43)

Method:

EUT primary is U=Un, F=Fn, operated under normal max. load.

Temperatures of parts are measured by thermal couplers, windings are measured by resistance change method.

Measuring place shall be a point close to the heat source. The test is continued until thermal stable.

Voltage is changed lower or higher tolerance without rest of time.

43	**TABLE: Thermal requirements**						Pass
	Model	XL18AD	--	--	--	--	—
	Supply voltage (V)	AC120V 60Hz	--	--	--	--	
	Ambient Tmin (°C)	24.7	--	--	--	--	—
	Ambient Tmax (°C)	25.0	--	--	--	--	—
	Max. load	Normal load	--	--	--	--	
Maximum measured temperature T of part/at:		T (°C)					Allowed Tmax (°C)
For lighting section							
Enclosure of adaptor		58.3	--	--	--	--	75
wire		42.8	--	--	--	--	105
LED PCB		46.9	--	--	--	--	130
LED lens		37.5	--	--	--	--	90
Supplementary information:							

Temperature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							

Dielectric Voltage-Withstand Test (45)

Method:

a seasonal lighting product shall withstand without breakdown the application of a 60 Hz essentially sinusoidal potential of 1250 V applied for 1 minute, under all the applicable conditions as follows
a) For a product employing series-connected lampholders, between live parts and metal foil placed over the lamp, lampholder, and wire assembly and arranged to conform to its shape;
b) For a product employing parallel-connected lampholders:
1) Between live parts of opposite polarity,
2) Between live parts and accessible dead metal parts that are likely to become energized, and
3) Between live parts and metal foil placed over the lamp, lampholder, and wire assembly and arranged to conform to its shape;
c) For a light sculpture or a product employing an enclosure, between live parts and accessible dead metal parts of the enclosure.
One previously untested product is to be subjected to this test. If the product employs parallel-connected lampholders, the test between live parts of opposite polarity is to be conducted without lamps. For a product with a non-metallic enclosure, metal foil is to be placed over the unit assembly and arranged to conform to its shape.

45	**Electric strength test**		Pass
Test voltage applied between:		Test voltage (V)	Breakdown
Input and plastic enclosure, lamp		1250	No
Input and wire		1250	No
L and N, output		1250	No

Strain Relief Test (46)

Pull Location	Samples	Force	Observations	--	
				Pass	Fail
lamp holder and wire	1#	8lbs (36N)	No damaged, no breakage, without displacement	√	

Abnormal Operation Test (48)

Method:

EUT is operating under normal load, U=Un, F=Fn. A fault is then introduced. One fault only at one time. Ventilation openings shall be blocked; Semiconductors shall be short-circuited or open-circuited one at a time; Transformer secondary windings are short-circuited one at a time (other windings are normal loaded); Transformer secondary windings are overloaded one at a time (other windings are normal loaded), Fan is locked; Operational insulation which clearances or creepage distances are less than requirement, is short-circuited; Motors are locked.

The input current, fuse rating current, test duration and observation shall be recorded.

The test is continued until a protection device opened the circuit (fuse) or steady state conditions. Overload test and fault condition which the current is more than normal current, shall wait until thermal stable, coil temperature of transformer shall be recorded.

48	**Fault condition tests (Continued)**	Pass
Requirement	Result	Remarks
During the test:		
Fire propagates beyond the EUT?	No	
Enclosures deform to cause non-compliance with the standard?	No	

48	**TABLE: Fault condition tests**					Pass
	Ambient temperature (°C) .....:		25.1°C			—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	current (A)	Observation
Model:XL18AD						
Output	S	120V 60Hz	10mins	--	0.01	Shut down, No damage, no hazards
First LED lights	S	120V 60Hz	10mins	--	0.01	Shut down, No damage, no hazards
The end of LED lights	S	120V 60Hz	10mins	--	0.01	Shut down, No damage, no hazards
Supplementary information:						
S: Short-circuited; **O**: Open-circuited; **O/L**: Overloaded						

Downward Burning Rate Test (50)

Location	Test conditions	Observations	--	
			Pass	Fail
Plastic fittings	Bright flame	Not exceeding 4 inches per minute	√	

Conductivity of Decorative Parts Test (51)

EUT is operating at: U=Un, F=Fn.

Load of the EUT is under maximum normal load and connected a 1500 ohm resistor

The input current and wattage to the EUT shall be measured

Location	Voltage	Measured current	Limit	--	
				Pass	Fail
L/N and Decorative Parts	120V/60Hz	0.03mA	5mA	√	

Routine Flexing Test (52)

Location	Test conditions	time	Observations	--	
				Pass	Fail
Cord	-	100,000 cycles	No damage, can't touch the live part.	√	

Tests for Permanence of Cord Tag (56)

Location	Test conditions	Force	Observations	--	
				Pass	Fail
Marking on cord	60°C 240h 23°C 50% R.H. 30min 32°C 85% R.H. 72h	8.9N	Legible, No damage	√	

Enclosure Mold Stress Relief Test (58)
Condition: Enclosure of molded or formed thermoplastic materials are subjected this test.

Method:

EUT of complete equipment is placed in a circulating air oven for 7h. The temperature is 70°C.

After test the EUT is permitted to cool to room temperature. Each enclosure material shall be tested.

Test samples	temperature	time	Observations
All unit	70°C	7h	No change

Drop Test (59)

Test conditions: Height=920mm

Location/Drop test	Drop No.	Observations	--	
			Pass	Fail
All unit	1	No damaged	√	
All unit	2	No damaged	√	
All unit	3	No damaged	√	

Impact Test (60)

Location/ Impact test	Impact energy	Observations	--	
			Pass	Fail
Lamp	6.8J for 50.8 mm diameter steel sphere	No damaged	√	
Lamp	6.8J for 50.8 mm diameter steel sphere	No damaged	√	
Lamp	6.8J for 50.8 mm diameter steel sphere	No damaged	√	

Adhesive Test (63)

Location	Temperature, humidity	time	Observations
All unit	90°C,14days 32°C, 88%R.H. 7days	--	No changer, No loose

Photo documentation

Model：32.8FT



Photo 1

Model：50FT



Photo 2

Model：100FT



Photo 3

Model：150FT



Photo 4

Model：200FT



Photo 5

Model：300FT



Photo 6

Model：400FT



Photo 7

Model：500FT



Photo 8

Model：600FT



Photo 9

Model：string light

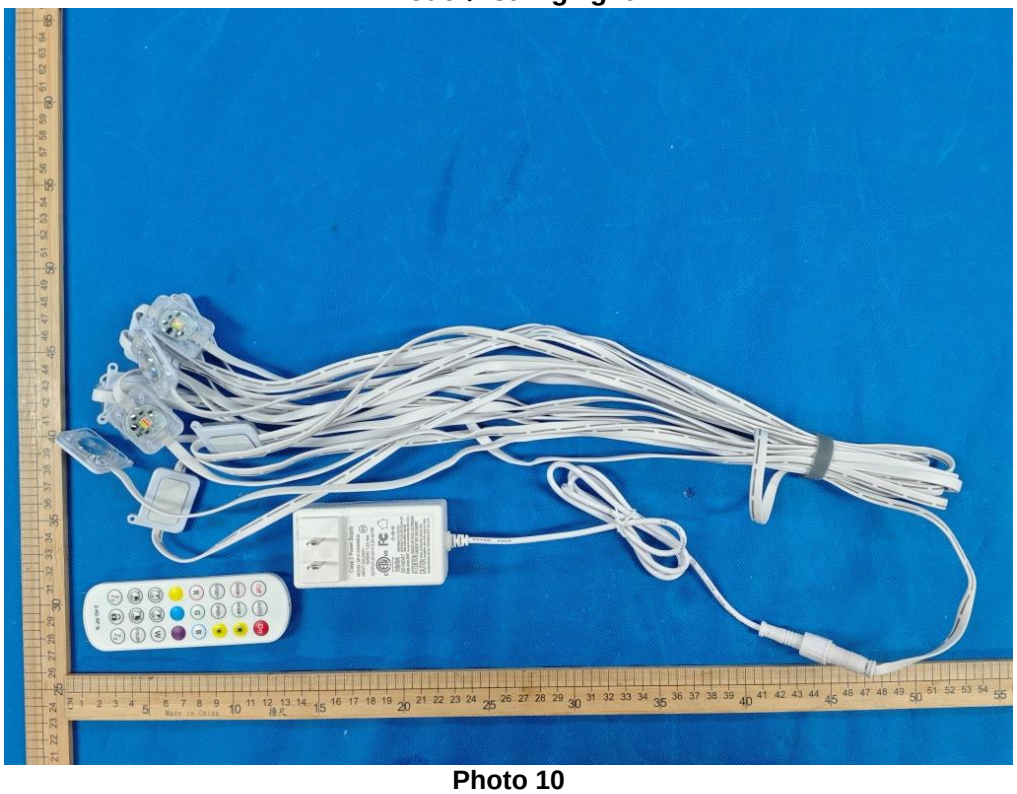

Photo 10

********** The End of Report **********