

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L521257-09711-20302202-1
Report Reference E521257-20220302
Date 2-Aug-2023

Issued to: Sanmen Chuangli Lighting Co Ltd
No. 16, Yantou, Longkang Village, Pubagang
Town, Sanmen County
Taizhou, Zhejiang Sheng 317108
China

**This is to certify that
representative samples of**

DHAC - Decorative Lighting Products, Low Voltage
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 588, Edition 19, Issue Date 2015-10-26, Revision Date
2022-12-06

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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Certificate Number UL-US-L521257-09711-20302202-1
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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
CL series	Low Voltage decorative lighting strings, non-replaceable lamps for indoor and outdoor use

Deborah Jennings-Conner

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2327076-0
Report Reference E521257-20220302
Date 2-Aug-2023

Issued to: Sanmen Chuangli Lighting Co Ltd
No. 16, Yantou, Longkang Village, Pubagang
Town, Sanmen County
Taizhou, Zhejiang Sheng 317108
China

**This is to certify that
representative samples of**

DHAC7 - Decorative Lighting Products, Low Voltage
Certified for Canada

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA C22.2 NO. 37, 7th Ed., Issue Date: 2020-01-01,
Revision Date: 2021-03-01

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Model	Category Description
CL series	Low Voltage decorative lighting strings, non-replaceable lamps for indoor and outdoor use

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File E521257

Vol 1

Authorization Page 1

Issued: 2022-03-10

Revised: 2023-08-02

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

DECORATIVE LIGHTING PRODUCTS, LOW VOLTAGE
(DHAC, DHAC7)

Manufacturer:	SEE ADDENDUM FOR MANUFACTURER LOCATIONS
Applicant:	2578712 (Party Site) Sanmen Chuangli Lighting Co Ltd No. 16, Yantou, Longkang Village, Pubagang Town, Sanmen County Taizhou Zhejiang 317108 CN
	2578712 (Party Site) SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following website: <https://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <https://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <https://www.ul.com/resources/contracts/follow-up-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body. The certification body's accreditation status for the applicable certification scheme and identification of the accreditation body can be found at <https://www.ul.com/resources/accreditation>.

Deborah Jennings-Conner
VP Regulatory Services
UL LLC

LOCATION

2834103 (Party Site)

Sanmen Chuangli Lighting Co Ltd

No.1-41,Qujia Village,Dongcheng Town,Village,Dongcheng Town

Linhai Zhejiang 317005 CN

Factory ID: none

UL Contracting Party for above site is: UL GmbH

INDEX

<u>Products Covered</u>	<u>Sec. No.</u>
USL/CNL - Low voltage decorative lighting strings, non-replaceable lamps, Models CL series, for indoor and outdoor use.	1

TEST RECORD NO. 1

The products indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

Low voltage decorative lighting strings, Models CL series, for indoor and outdoor use.

Samples of Models CL-5V400F, CL-12V1200F, CL-24V800F-1, CL-24V800F-2, CL-24V1200F-3, CL-24V2400F-4, CL-30V1000F-1, CL-30V1000F-2, CL-30V2000F-3, CL-30V3600F-4, CL-5V400F-T, CL-12V1200F-T, CL-24V800F-T-1, CL-24V800F-T-2, CL-24V1200F-T-3, CL-24V2400F-T-4, CL-30V1000F-T-1, CL-30V1000F-T-2, CL-30V2000F-T-3, CL-30V3600F-T-4, CL-5V400F-DC43, decorative covers Cat. Nos. DC1, DC16, DC37, DC39, DC41, single wire and parallel wire of Models CL series were used for investigation purposes and were considered representative of the entire series.

The following tests were conducted:

Test	Standard	Clause
Input Test	UL 588	42
Temperature Test	UL 588	43
Component Power Measurement Test	UL 588	49
Downward Burning Rate Test	UL 588	50
Detailed Examination	UL 758	5,7
DC Resistance	UL 758	5.6
VW-1 Flame Test	UL 758	42

A copy of the original test data is available as a Supplement to this Test Record.

Test results relate only to the items tested.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standard noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition	Publication or Revision Date
UL 588	Seasonal and Holiday Decorative Products	19th	2021-10-27

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TEST RECORD NO. 2

The products indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

Low voltage decorative lighting strings,

1) USL Models CL series employing with alternate ATXW wire.

2) CNL Models CL series, for indoor and outdoor use.

Additional tests were not considered necessary due to tests conducted in test record referenced below.

The following tests were waived:

Test	Rationale for Waived Test (See Below)	File Reference	Report Date	Test Record No.
Input Test	1	E521257	2022-03-02	1
Temperature Test				
Downward Burning Rate Test	2			

1. Identical to existed Models except for employing with Listed larger AWG wire and the initial wire temperature was below 50°C.

2. Models employed with the same materials as existed Models.

UL 588 Standard Test / Section	Canadian Standard Test / Section
Input Test / 42	Test voltage and input rating / 5.8.4
Temperature Test / 43	Temperature Test / 5.8.5
Downward Burning Rate Test / 50	Decorative Part Flammability Test / 5.8.11

The tests conducted in accordance with UL 588, 19th Edition, for Seasonal and Holiday Decorative Products, were considered representative of other tests required by Canadian Standard as indicated in the table above.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standard noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition	Publication or Revision Date
UL 588	Seasonal and Holiday Decorative Products	19th	2022-12-06
CSA C22.2 NO. 37	Decorative Lighting Products	7th	2020-01-01

Test Record by:

Reviewed by:

ROBERT KUO
Associate Project Engineer

NANCY CHUANG
Senior Project Engineer

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CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL LLC (UL) and the Applicant for establishment of UL certification coverage of the described product(s) under UL's Follow-Up Service. UL retains all rights, title and interest (including exclusive ownership) in this Report and all copyright therein. The Applicant or its designated agent shall not disclose or otherwise distribute this Report or its contents to any third party, except as required for purposes of compliance with laws, regulations, or other existing agreements or schemes in which UL is currently a participant. Any other use of this Report including, without limitation, evaluation or certification by a party other than UL is prohibited and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of, or in connection with, the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

Report by:

Reviewed by:

CHAD WU
Project Engineer

NANCY CHUANG
Senior Project Engineer

File E521257
Project 4789863201

March 2, 2022

REPORT

On

STRINGS, DECORATIVE-LIGHTING, LOW VOLTAGE

SANMEN CHUANGLI LIGHTING CO., LTD
Zhejiang, China

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DESCRIPTION

PRODUCT COVERED:

USL/CNL - Low Voltage decorative lighting strings, non-replaceable lamps, Models CL series, for indoor and outdoor use.

See Nomenclature and Tables 1 thru. 4 for detailed model numbers.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD ENGINEER'S USE):

These products are for use with a maximum input and output voltage rating of 120 V, 60 Hz, and are for temporary use, which is a period of installation and use not exceeding 90 days.

USL - Products designated USL have been investigated using US requirements as noted in the Test Record.

CNL - Products designated CNL have been investigated using Canadian requirements as noted in the Test Record.

VERIFICATION OF CANADIAN CERTIFIED COMPONENTS:

The descriptions of certain components in this report contain the notation "CN". "CN" indicates that the component has been evaluated to Canadian requirements. Whenever "CN" appears in the component description, the UL Representative shall confirm that the component has a CSA Certification Mark, a Canadian UL Listing Mark, a Canadian UL Recognition Mark, or an equivalent identifier, if the Listed product described in this report bears the C-UL Mark.

*

NOMENCLATURE:

Model	$\frac{CL}{A}$	-	$\frac{5V}{B}$	$\frac{500}{C}$	$\frac{I}{D}$	$\frac{F}{E}$	$\frac{-T}{F}$	$\frac{-IR}{G}$	$\frac{-DC1}{H}$	$\frac{-1}{I}$
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A = Model designation.

B = Rating voltage of class 2 power unit, may be "5V" for rating at 5.0 V dc, "12V" for rating at 12 V dc, "24V" for rating at 24 V dc or "30V" for rating at 30 V dc.

C = Lamp numbers. See Electrical Ratings for details.

D = String light configuration. May be blank for straight light, "I" for icicle light, "N" for net light or "C" for curtain light.

E = May be blank for providing without flasher control or "F" for providing flasher control.

F = May be blank for flasher control without timer function or "-T" for flasher control with timer function.

G = May be blank for flasher control without remote control or "-IR" for flasher control with remote control.

H = Cat. No. of decorative covers. For example, "-DC1" represents Models employed with decorative cover Cat. No. DC1. See Table 5 for details of decorative cover.

I = For Models infixed with 24V and 30V only. May be "-1", "-2", "-3", "-4" for employing with different class 2 power unit.

ELECTRICAL RATINGS:

120 V ac, 60 Hz.

TABLE 1

Model No.	Input Current, A	Input Wattage, W
CL-5VXIF-T-IR-DC1	0.09	6.4

Notes:

- 1) Where "X" may be "5" to "400";
- 2) Where "I" may be "N", "C" or blank;
- 3) Where "F" may be blank;
- 4) Where "-T" may be blank;
- 5) Where "-IR" may be blank;
- 6) Where "-DC1" represents Cat. No. of decorative covers when provided. See Nomenclature and Table 5 for details.

TABLE 2

Model No.	Input Current, A	Input Wattage, W
CL-12VXIF-T-IR-DC1	0.115	8.4

Notes:

- 1) Where "X" may be "4" to "1200";
- 2) Where "I" may be "N", "C" or blank;
- 3) Where "F" may be blank;
- 4) Where "-T" may be blank;
- 5) Where "-IR" may be blank;
- 6) Where "-DC1" represents Cat. No. of decorative covers when provided. See Nomenclature and Table 5 for details.

TABLE 3

Model No.	Input Current, A	Input Wattage, W
CL-24VWIF-T-IR-DC1-1	0.07	4.8
CL-24VXIF-T-IR-DC1-2	0.12	8.4
CL-24VYIF-T-IR-DC1-3	0.16	10.8
CL-24VZIF-T-IR-DC1-4	0.18	12

Notes:

- 1) Where "W" may be "8" to "800";
- 2) Where "X" may be "8" to "800";
- 3) Where "Y" may be "600" to "1200";
- 4) Where "Z" may be "1000" to "2400";
- 5) Where "I" may be "N", "C" or blank;
- 6) Where "F" may be blank;
- 7) Where "-T" may be blank;
- 8) Where "-IR" may be blank;
- 9) Where "-DC1" represents Cat. No. of decorative covers when provided. See Nomenclature and Table 5 for details.

TABLE 4

Model No.	Input Current, A	Input Wattage, W
CL-30VWIF-T-IR-DC1-1	0.07	4.8
CL-30VXIF-T-IR-DC1-2	0.12	8.4
CL-30VYIF-T-IR-DC1-3	0.18	12
CL-30VZIF-T-IR-DC1-4	0.22	15

Notes:

- 1) Where "W" may be "10" to "1000";
- 2) Where "X" may be "10" to "1000";
- 3) Where "Y" may be "600" to "2000";
- 4) Where "Z" may be "1000" to "3600";
- 5) Where "I" may be "N", "C" or blank;
- 6) Where "F" may be blank;
- 7) Where "-T" may be blank;
- 8) Where "-IR" may be blank;
- 9) Where "-DC1" represents Cat. No. of decorative covers when provided. See Nomenclature and Table 5 for details.

USL MARKING:

The height of lettering of the required markings shall be as follows:

- a) Uppercase letters shall not be less than 1/12 in (2.1 mm) in height.
- b) Lowercase letters shall not be less than 1/16 in (1.6 mm) in height.
- c) The words "CAUTION" and "WARNING" shall be in letters not less than 3/16 in (4.8 mm) in height.

The required markings shall be legible and shall comply with the following:

The marking shall be indelibly stamped or printed black on a white PGIS2 that complies with UL 588 or UL 817 flag-type tag with adhesive back.

Cord Tag Markings - Markings located on a tag as described below may continue on the second side of the tag, such that when the first side is read completely, the tag is to be turned over to read the remainder of the marking. At the end of the markings on the first side of the tag, the tag shall be marked: "See other side." Before the remainder of the required markings on the second side of the tag, the tag shall be marked: "Continued from other side." The word "CAUTION" may appear only once at the beginning of the marking, followed by a numbered list.

See Ill. 1 for the wording and layout of the Cord Tag. The cord tag shall have the correct Model Number, Input Current and Power Ratings, Date Code, Model. No. of the Seasonal LED driver/Class 2 power supply and Listee name of the Seasonal LED driver/Class 2 power supply. The markings shall be located on a tag attached to the product within 6 inches (152.4 mm) of the exit of the power supply.

USL PACKAGING MARKINGS:

Each individual carton or container in which a product is packaged shall be marked, where readily visible without opening the package with the following or the equivalent:

"For Indoor and Outdoor Use", "Indoor and Outdoor Use" or "Indoor and Outdoor" when the product is intended for indoor and outdoor use.

The location of the Markings shall comply with one of the following:

- a) When packaged in a carton, the Marking shall appear on the outside front cover.
- b) When packaged in a bag, the Marking shall appear on two opposing sides of the bag. If the bag is opaque the letters shall be printed on a high contrast background. If the bag is transparent, the letters shall be printed in black on a white opaque background.
- c) When packaged in a bag attached to a piece of cardboard, the Marking shall appear on both sides of the cardboard.
- d) When packaged in a transparent polymeric covering attached to cardboard, the Marking shall appear on the front of the package, on the cardboard.

The height of lettering of the above required Markings shall be as follows:

- a) Upper case letters shall not be less than 1/12 inch (2.1 mm) in height.
- b) Lower case letters shall not be less than 1/16 inch (1.6 mm) in height.

The required Markings shall be legible and the letters shall be on a high contrast background except when packaged in a transparent bag, in which case, the letters shall be printed in black on a white opaque background.

The required Marking shall be durable, legible, and permanent. A Marking shall be considered permanent if it is indelibly stamped or printed on the packaging or on a pressure sensitive adhesive-backed label.

BATTERY SUPPLY POLARITY IDENTIFICATION:

Unless the physical configuration of the battery supply and the battery-operated products prevents reverse polarity during battery supply installation, the polarity of the connections between a user-replaceable battery supply and a battery-operated product shall be plainly marked on the battery-operated product with:

- A. The words " positive" and "negative",
- B. The signs "+" for positive and "-" for negative;
- C. The color coding red for a positive lead and black for a negative lead; or
- D. A pictorial representation (such as an illustration on a label) illustrating the proper polarity and orientation of the battery supply, as applicable for the type of battery supply involved.

USL INSTRUCTION MANUAL:

The height of the lettering in the text and illustrations of the instructions specified below shall be as follows:

- a) Upper case letter shall not be less than 1/12 inch (2.1 mm) in height.
- b) Lower case letters shall not be less than 1/16 inch (1.6 mm) in height.
- c) The phrases "IMPORTANT SAFETY INSTRUCTIONS," "READ AND FOLLOW ALL SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be in letters not less than 3/16 inch (4.8 mm) in height.

The items may be numbered. The phrases "READ AND FOLLOW ALL SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be first and last, respectively, in a list of items. Other important safety instruction items considered appropriate by the manufacturer may be inserted.

The following instructions shall be provided on a stuffer sheet, on the outside surface of the carton of the product or in an instruction manual of the product:

See Ill. 2 for the wording and layout of the Instruction Manual. The Instruction Manual shall have the model number.

CNL MARKINGS:

The height of lettering of the required markings shall be as follows:

- a) a minimum height of 2.1 mm (0.0827 in) for letters that are upper case;
- b) a minimum height of 1.6 mm (0.062 in) for letters that are lower case;
- c) a minimum height of 4.8 mm (0.189 in) for all letters of any signal words which include "WARNING" and "CAUTION".

All markings required shall be legible, permanent and easy to read. Permanent markings are considered to be one or more of the followings:

- a) stamped onto the housing, attachment plug blade, or unit;
- b) molded into the parts of the unit; and
- c) on an adhesive-backed label complying with the requirements of CSA C22.2 No. 0.15. The label shall be permanently stamped or printed and be suitable for the type of surface, temperature, and environment such as indoor or outdoor.

A flag style tag shall be used if the markings are to be adhered to any product wiring. The back of the tag shall contain adhesive and placed over the wires so that the tag wraps around the wire and extends past the wire like a flag.

When a flag style tag is used, markings shall be placed on the tag such that the tag does not have to be flipped to read each sentence, but only flipped once to read the complete markings on the other side of the tag. In such case, the first side of the tag shall be marked at the end of the first set of markings with "See other side" and the start of the second side of the tag shall be marked "Continued from other side".

See Ill. 1, Cord Tag #CS01 for the wording and layout of the Cord Tag. The Cord Tag shall be filled in appropriately according to the notes in Ill. 1. The markings shall be located on a tag attached to the product within 6 inches (152.4 mm) of the face of the power supply.

The Cord Tag #CSE1 shall be located on a tag attached to the product within 3 inches (76.2 mm) of the face of the last female connector if provided.

CNL SAFETY INSTRUCTIONS:

The lettering of the instructions, including the text in illustrations specified, shall comply with the following minimum letter height requirements:

- a) a minimum height of 2.1 mm (1/12 in) for letters that are upper case;
- b) a minimum height of 1.6 mm (1/16 in) for letters that are lower case;
and
- c) A minimum height of 4.8 mm (3/16 in) for the following phrases or words:
 - i) "IMPORTANT SAFETY INSTRUCTIONS";
 - ii) "READ AND FOLLOW ALL SAFETY INSTRUCTIONS";
 - iii) "SAVE THESE INSTRUCTIONS";
 - iv) "WARNING"; and
 - v) "CAUTION".

CNL IMPORTANT SAFETY INSTRUCTIONS:

The items may be numbered. The phrases "READ AND FOLLOW ALL SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be first and last, respectively, in a list of items. Other important safety instruction items considered appropriate by the manufacturer may be inserted.

The following instruction manual shall be printed on the outside surface of the retail packaging, or on a separate sheet of paper. For several products packaged as one retail sell unit, only one set of instructions is required:

See Ill. 14 for the wording and layout of Instruction Manual. The Instruction Manual shall have the Model number of the product or products, which it covers.

CNL RETAIL PACKAGING:

The retail packaging shall be marked with the following or equivalent as appropriate:

- a) "For indoor and outdoor use".

The marking shall and be on a high colour contrast background unless located on a poly bag.

The retail packaging markings shall be placed:

- a) on the front panel when in a retail box or container;
- b) on opposite sides of the bag when packaged only in a bag;
- c) on both sides of the header card when packaged in a bag attached to a header card; or
- d) on the front of the card for a blister card or other packaging that is a transparent or translucent material holding the product to a card.

The retail packaging marking shall not be required for products without packaging rated for outdoor use.

MODEL CL-5V400F FOR INDOOR AND OUTDOOR USE - FIG. 1

General - The general design, shape, and arrangement shall be as illustrated except where variations are specifically described. Also represents Models CL series.

1. Seasonal LED driver / Class 2 Power Unit - Listed **DGXU/7**, **EPBU/7** or R/C **DGXU2/8**, suitable for outdoor use, input rated 120 V, 60 Hz, see below for details.

Mfr Name	Model No.	Rated Input Current, A	Rated Output Voltage, V	Rated output Current, A	For Models infixed with	For Models suffixed with
Changzhou Jutai Electronic Co., Ltd. (E200916 or E360621)	JT-DC050V1000-C	0.2	5	1	5V	-
	JT-DC120V0600-D	0.3	12	0.5	12V	-
	JT-DC240V0150-C	0.2	24	0.15	24V	-1
	JT-DC240V0250-C	0.2	24	0.25		-2
	JT-DC240V0360-D	0.3	24	0.36		-3
	JT-DC300V0120-C	0.2	30	0.12	30V	-1
	JT-DC300V0200-C	0.2	30	0.2		-2
	JT-DC300V0280-D	0.3	30	0.28		-3

- * Alternate - **Class 2 Power Unit** - Listed **EPBU/7**, suitable for outdoor use, input rated 120 V, 60 Hz, see below for details.

Mfr Name	Model No.	Rated Input Current, A	Rated Output Voltage, V	Rated output Current, A	For Models infixed with	For Models suffixed with
*Changzhou Jutai Electronic Co., Ltd. (E200916)	JT-DC300V0500-F	0.5	30	0.5	30V	-4
Changzhou Jutai Electronic Co., Ltd. (E200916)	JT-DC240V0500-F	0.5	24	0.5	24V	-4

*

2. Power Male Connector - One provided. Dimensions may vary. Provided with a threaded locking nut for securement to Seasonal-Use LED Driver/Class 2 Power Unit. Formed of material which complies with Downward Burning Rate Test.
3. Interconnection Male Connector - Numbers and dimensions may vary. Provided with a threaded locking nut for securement to Interconnection Female Connector. Formed of material which complies with Downward Burning Rate Test.
4. Interconnection Female Connector - Numbers and dimensions may vary. Formed of materials which comply with Downward Burning Rate Test.

Alternate - (For Models employing with Listed **EPBU/7** Class 2 power unit) Same as above except not provided at the end of the string.

5. Flasher Control - Optional. Provided between Power Male Connector and the first lampholder. Formed of materials which comply with Downward Burning Rate Test. See Ills. 3, 4 and below table for details.

Cat. No. of Flasher Control	Overall Dimensions, mm	Ill. No. of PWB	For Models infixed with
HS-3.6/36-1.0S-M	42.1 by 57.6 by 19.8	5	5V
		6	12V
		7	24V
HS-3.6/36-0.375S-M	57.4 by 40.8 by 14.8		30V
		8	5V
		9	12V
HS-3.6/36-0.375S-IR-E		10	24V
		11	30V

6. Remote Control - Optional. Provided with one battery, type CR2025, rated 3 V. See Ill. 12 for details.

*

7. Single Wire - **(For USL only)** Non-R/C, Min. 28 AWG, **complies with VW-1 Flame Test.** Min. insulation thickness 0.4 mm.

Alternate - Listed ZMJE, Type ATXW, Min. 26 AWG, rated 50°C, VW-1. Min. insulation thickness 0.4 mm.

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8. Parallel Wire - **(For USL only)** Non-R/C, Min. 26 AWG, **complies with VW-1 Flame Test.** Min. insulation thickness 0.4 mm.

Alternate - Listed ZMJE, Type ATXW, Min. 26 AWG, rated 50°C, VW-1. Min. insulation thickness 0.4 mm.

9. String Segments - Consists of single wire, parallel wire and non-replaceable lampholder assemblies. See Tables 1 thru. 4 for lamp numbers. Each lampholder consists of barrier, heat shrinkable tube and LED lamp. Each LED rated 3 V, 0.02 mA. Formed of materials which comply with Downward Burning Rate Test.
10. Decorative Covers - Optional. Formed of material which complies with Downward Burning Rate Test. Secured to lampholder by adhesive. See Table 5 for details.

TABLE 5

Cat. No. of Decorative Cover	Overall Dimensions, mm	Ventilating Type	ILL. No.
DC1	30 x 30 x 15	Closed	13
DC2	15 x 25 x 40	Closed	13
DC3	55 x 85 x 15	Closed	13
DC4	40 x 40 x 15	Closed	13
DC5	40 x 40 x 15	Closed	13
DC6	35 x 35 x 15	Closed	13
DC7	30 x 30 x 15	Closed	13
DC8	34 x 40 x 15	Closed	13
DC9	40 x 40 x 15	Closed	13
DC10	45 x 45 x 12	Closed	13
DC11	45 x 45 x 12	Closed	13
DC12	30 x 30 x 12	Closed	13
DC13	25 x 25 x 12	Closed	13
DC14	35 x 50 x 15	Closed	13
DC15	130 x 40 x 25	Closed	13
DC16	30 x 35 x 15	Closed	13
DC17	30 x 45 x 15	Closed	13
DC18	55 x 40 x 10	Closed	13
DC19	50 x 20 x 15	Closed	13
DC20	40 x 40 x 15	Closed	13
DC21	45 x 45 x 15	Closed	13
DC22	48 x 38 x 12	Closed	13
DC23	32 x 32 x 15	Closed	13
DC24	45 x 35 x 8	Closed	13
DC25	45 x 55 x 8	Closed	13
DC26	55 x 50 x 10	Closed	13
DC27	35 x 30 x 8	Closed	13
DC28	40 x 35 x 8	Closed	13
DC29	38 x 35 x 8	Closed	13
DC30	40 x 38 x 10	Closed	13
DC31	40 x 30 x 8	Closed	13
DC32	35 x 28 x 8	Closed	13
DC33	26 x 26 x 28	Closed	13
DC34	28 x 35 x 8	Closed	13
DC35	42 x 42 x 41	Closed	13
DC36	29 x 29 x 28	Closed	13
DC37	45 x 45 x 40	Closed	13
DC38	26 x 26 x 7	Closed	13

TABLE 5 (Cont'd)

Cat. No. of Decorative Cover	Overall Dimensions, mm	Ventilating Type	ILL. No.
DC39	22 x 22 x 17	Closed	13
DC40	9 x 9 x 69	Closed	13
DC41	19 x 19 x 64	Closed	13
DC42	17 x 17 x 20	Closed	13
DC43	16 x 16 x 19	Closed	13
DC44	18 x 18 x 76	Closed	13
DC45	23 x 23 x 30	Closed	13
DC46	19 x 19 x 24	Closed	13
DC47	17 x 17 x 20	Closed	13
DC48	15 x 15 x 60	Closed	13

11. Cord Tag - PGIS2, Marking and Labeling System, limited use to UL 588, any type is acceptable provided it is suitable for indoor and outdoor use. The tag shall be a flag-type tag with an adhesive back. The tag is to be wrapped once tightly around and adhered to the wire. The ends of the tag are to adhere to each other and project as a flag. Markings are printed in black on a white background.