intertek
Total Quality. Assured.

LOW VOLTAGE LIGHTING SYSTEMS
ANSI/UL 2108

FASTER, MORE FLEXIBLE SOLUTIONS

An innovative leader in lighting testing and certification, Intertek offers custom programs for low voltage lighting systems, helping clients bring products to market quickly and efficiently.

Low Voltage Lighting Systems

A low voltage lighting system is a collection of one or more low voltage luminaires and a power unit. They typically consist of a luminaire permanently mounted to a surface with a remote power source. They can occur in many shapes and sizes.

Some examples include:

- Low voltage track luminaires
- Direct current (DC) grid luminaires
- Low voltage luminaires powered from a remote power over ethernet (POE) switch or other type of power unit

Low voltage lighting systems are intended for permanent installation in accordance with the National Electrical Code (NEC), NFPA 70, Article 411.

The benefits of low voltage lighting systems include:

- Flexibility to interchange between manufacturers
- Ability to have remote power sources (such as POE or LED drivers)
- DC to DC power with centralized driver and control system
- More flexibility on wiring methods and enclosure construction requirements, for low voltage luminaires used with a remote Class 2 unit

Certification Standards

The primary standards used for certifying a low voltage lighting system in the U.S. are:

- ANSI/UL 2108 –Standard for Safety for Low Voltage Lighting Systems
- ANSI/UL 8750 – Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Applications.

In Canada, the primary standards for the certification of low voltage lighting systems are:

- CAN/CSA C22.2 No. 9 – General Requirements for Luminaires
- CAN/CSA C22.2 No. 250.13 – Light Emitting Diode (LED) Equipment for Lighting Applications

As a Nationally Recognized Laboratory (NRTL) for the Occupational Safety and Health Administration (OSHA), Intertek can test low voltage lighting systems and certify their compliance to applicable standards, issuing the ETL mark to compliant products.

The ETL Mark

The ETL Mark is the fastest growing certification program in North America. It serves as proof to authorities having jurisdiction (AHJs), inspectors, retailers, and consumers that a product has been independently tested and meets applicable safety standards.

ETL LISTED
Intertek

Getting a Low Voltage Lighting System Certified by Intertek

Engaging Intertek to test and certify your low voltage lighting system involves several steps that can allow your system to be certified within 15 business days.

- Contact Intertek through our iCenter or your sales representative, providing as many details about your job as possible
- Receive a quote for services from Intertek; sign the agreement
- Verify critical components of the lighting system are certified by a NRTL
- Provide sample(s) of your lighting system
- Intertek will test the product to the applicable standard
- If found to be compliant, your products will be certified to ANSI/UL 2108 and/or CAN/CSA C22.2 No. 9 and will gain the status of "ETL Listed," allowing it to bear the ETL mark
- Listed products are added to Intertek's directory of ETL Listed products

How Intertek Can Help

Intertek is a leader in lighting testing and certification. We draw on more than 100 years of experience in electrical testing to test a variety of lighting products. Our industry partnerships include regulatory agencies, governmental departments and local AHJs. As an independent third-party testing organization, we provide flexibility, speed and knowledge.

With a global network of lighting labs in multiple countries, we have the proven capacity to provide you with a complete range of global quality, safety, performance, regulatory compliance, labeling, and advisory services for low voltage lighting systems.

WHAT'S THE DIFFERENCE BETWEEN THE ETL MARK AND THE UL MARK?

In North America, there are Nationally Recognized Testing Laboratories (NRTLs) for both standards development organizations (SDOs) and the US Department of Labor's Occupational Safety and Health Administration (OSHA). UL functions as both an SDO as well as an NRTL, while Intertek functions solely as a NRTL. In the US all NRTLs certify products to ANSI/UL standards and in Canada, all NRTLs certify to CAN/CSA standards. In international markets IEC standards are primarily used. Because NRTLs are using the same standards to evaluate products, there are not many differences between the marks themselves. The testing and certification process is similar across the board. Intertek's robust process is one of the most thorough in the industry, and our speed-to-market enables clients to have a low voltage lighting system certified in 15 business days.

About Intertek

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 43,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

FOR MORE INFORMATION

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