



Certificate of Compliance

Certificate: 1987913

Master Contract: 241793

Project: 1987913

Date Issued: 2008/05/07

Issued to: US LED Ltd

1800 Bering Dr, Suite 200
Houston, TX 77057
USA

Attention: Mr. John Allgood

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Issued by: Daniela Radocaj, B.Sc.E.E.

Authorized by: Lindsay Clark, Product Group Manager

PRODUCTS

CLASS 3426 33 - SIGNS - LED Modules and Strips-Component

Sign Accessories, "MegaWhite" Class 2 LED Modules, Model MY12-K-XX ("MegaX") series: where Y may be replaced by any number from 0 to 99; K may be replaced by W, R, B, Y, G and RO; and XX is optional, where it may be replaced by any alphanumeric characters (0-9 or A to Z or combinations).

Accessories, "Mega", "Accent" or "Pinnacle Series", Model QABC-XX-YY-ZZZZ series, where Q may be P, M, C or blank; AB, XX and YY may be replaced by any alphanumeric characters (00-99 or AA to ZZ or combinations); C may be blank or may be any alphanumeric characters (0-9 or A to Z); and ZZZZ may be any alphanumeric characters (0000-9999 or AAAA to ZZZZ or combinations).



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Rated: Max. 15 V dc, 0.5 A.

Conditions of Acceptability:

- These products are only suitable for connection to a Class 2 power source, rated max 15 Volt DC or Less .
- These products have not been evaluated for use when connected to a power source that does not comply with Class 2 voltage and energy limited circuit.
- These Class 2 LED Modules are each rated max. 7.5 Watts per unit. When units are connected to a Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the Class 2 supply.
- These products are suitable for use in dry, damp and wet locations with supply sources rated at 12 Volt DC or less.
- These products are not required to be enclosed or protected from the weather in the end product.
- These products are components and subject to acceptability in the end product.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No 250.0 - 04 - Luminaires

CAN/CSA C22.2 No 207 - Portable and Stationary Electric Signs and Displays



Supplement to Certificate of Compliance

Certificate: 1987913

Master Contract: 241793

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1987913	2008/05/07	LED Sign Accessories



Descriptive Report and Test Results

MASTER CONTRACT: 241793

REPORT: 1987913

PROJECT: 1987913

Edition 1: May 7, 2008; Project 1987913 – Vancouver
Issued by Daniela Radocaj, B.Sc.E.E.

Contents: Certificate of Compliance - Pages 1 to 2
Supplement to Certificate of Compliance – Page 1
Description and Tests – Pages 1 to 5
Figures – 1 to 3
Attachment A - "Accent" Installation Manual (CSA File Only)
Attachment B - "MegaWhite" Installation Manual (CSA File Only)
Attachment C - "Pinnacle" Installation Manual (CSA File Only)

PRODUCTS

CLASS 3426 33 - SIGNS - LED Modules and Strips-Component

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Rated: Max. 15 V dc, 0.5 A.

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13799 Commerce Parkway, Richmond, BC, Canada V6V 2N9

Telephone: 604.273.4581 1.800.463.6727 Fax: 604.244.6600 www.csa-international.org

Conditions of Acceptability:

1. These products are only suitable for connection to a Class 2 power source, rated max 15 Volt DC or Less.
2. These products have not been evaluated for use when connected to a power source that does not comply with Class 2 voltage and energy limited circuit.
3. These Class 2 LED Modules are each rated max. 7.5 Watts per unit. When units are connected to a Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the Class 2 supply.
4. These products are suitable for use in dry, damp and wet locations with supply sources rated at 12 Volt DC or less.
5. These products are not required to be enclosed or protected from the weather in the end product.
6. These products are components and subject to acceptability in the end product.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No 250.0-04 - Luminaires
- CAN/CSA C22.2 No 207 - Portable and Stationary Electric Signs and Displays

MARKINGS

Each unit shall be legibly and permanently marked with the following:

1. Submitter's identification;
2. Model designation or equivalent;
3. Complete electrical rating where applicable;
4. Date code or equivalent;
5. "CLASS 2" where applicable;
6. Cautions and warnings and additional markings as may be required by the applicable Standards;
7. Wiring diagram;
8. Installation instructions;
9. The product may the CSA mark.
10. In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

ALTERATIONS

See Markings above.

TECHNICAL CONSIDERATIONS: (Not For Field Representatives Use)

1. These products consist of LEDs mounted on a printed wiring board and the printed wiring boards are to be installed in channel letters. The LED boards have only been evaluated for use when connected to a Class 2 circuit.
2. The LEDs when connected to the Class 2, max. 15 Volts AC or max. 30 Volts DC or less output supply are suitable for installation in wet, damp or dry locations.

FACTORY TESTS

Not Applicable

DESCRIPTION

General: These products consist of LEDs mounted on a printed wiring board, and the printed wiring boards are to be installed in channel letters. The LED boards have only been evaluated for use when connected to a Class 2 circuit. The LEDs when connected to the Class 2, max. 15 Volts AC or max. 30 Volts DC or less output supply are suitable for installation in wet, damp or dry locations.

Nomenclature: (a) Class 2 LED Modules, MY-12-K-XX (MegaX) series: where MY represents the LED module series designation; 12 represents the input voltage to each LED modules; K represents different LEDs color and XX (optional) represents different LED tint configuration. K may be W (White), R (Red), B (Blue), Y (Yellow), G (Green) and RO (Red and Orange).

(b) Class 2 LED Modules Q ABC-XX-YY-ZZZZ, where Q represents Mega, or Accent or Pinnacle series; where Q and ABC represent the LED module series designation; XX represents the number of LEDs on the module, YY represents the input voltage to each LED module; and ZZZZ represents different LEDs color or rank in colour.

Model Differences: Class 2 LED modules, MY-12-K-XX (MegaX) Series are similar, except for model designations, LED color, number of LEDs per module and module shape and size.

CONSTRUCTION

General: Class 2 LED Modules, Model MY-12-K-XX ("MegaX") and Mega, Accent or Pinnacle Model Q ABC-XX-YY-ZZZZ Series. All components located in low voltage, low energy circuit.

1. **Printed Wiring Board (PWB):** Recognized. Shape and size may vary, single or double sided, rated 94V-2, min. 60°C.
2. **LEDs:** Located in Class 2 circuit. PWB mounted. Number, shape and color may vary per LED module.
3. **Adjustable Linear Regulator (IC):** Optional. As shown, PWB mounted, one provided per LED module.

4. Resistors: Surface mount technology, rating may vary.
5. Capacitor: Surface mount technology, rating may vary.
6. Interconnect Leads: As shown, soldered to PWB, rated min. 20 AWG, 60°C.
7. Mounting Means: Provided with double sided adhesive tape placed on plastic mounting clip for mounting.

TESTS

Edition: 1 (Project 1987913)

Tests results were reviewed and accepted by CSA International based on UL Report E226833, dated 2008/03/06.
Test details are kept in the Engineering folder located at the Vancouver Office under this project number.
Additional testing was not required.

