Certificate of Compliance

Certificate:	80304487	**Master Contract:**	170351
Project:	80304487	**Date Issued:**	2026-06-15
Issued to:	**Bel Fuse Inc.** **300 Executive Drive** **Suite 300** **West Orange, New Jersey** **07052** **United States** **Attention:** Editha S. Vergara	**Issued by:**	*Mike Liew* Mike Liew, P. Eng

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

PRODUCTS

Class 5311 67 POWER SUPPLIES - Component Type (CSA 62368-1)
Class 5311 97 POWER SUPPLIES - Component Type (UL 62368-1) - Certified to US Stds

Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by CSA Group.

AC-DC Converter, Model TLP5000-1048, may be followed by alpha-numeric characters denoting non-safety critical options.

Rating :
AC INPUT (WYE, without neutral):
3 Phase 230-277 / 400-480Vac, 50/60Hz, 3W + PE, 9 - 7 A

DC OUTPUT:

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39 – 57 Vdc, Max. 105 A, Maximum output power 5000 W

APPLICABLE REQUIREMENTS

Standards Used	Description
CSA C22.2 NO. 62368-1:25 - Fourth Edition	Audio/video, information and communication technology equipment — Part 1: Safety requirements
UL 62368-1:2025 - Fourth Edition	Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements

Conditions Of Acceptability

When installed in the end use equipment, the following are among the considerations to be made:

1. Equipment shall be installed only by trained service personnel, according to manufacturer's installation instructions.
2. Evaluated as Class I (earthed equipment). Reliable earth connection shall be provided in the end use installation.
3. The product was evaluated at maximum ambient temperature, Tma of 70°C. Heating test was conducted monitoring the internal components temperature. Accessibility to high component temperature must be considered on end system equipment.
4. Equipment for building-in. Temperature tests shall be considered for specific installation conditions in the end system.
5. Enclosure provided with the equipment complies with the FIRE, MECHANICAL and ELECTRICAL enclosure requirements.
6. The secondary outputs are ES1 at PS3/PS1. Accessibility is to be determined in the end system.
7. Measured temperature of accessible outside surfaces, Top, Bottom, Sides, Front panel and Handle, are within the limit of TS1 based on 25°C ambient. Accessibility must be determined in the end system when operating at higher ambient temperatures.
8. Evaluated for connection to AC power with a branch circuit protector rated max 25 A. If used on a branch circuit with higher rating, additional testing shall be considered.
9. The ground path from the input connector to the PSU case meets protective bonding and has been evaluated at 50 A.
10. The Connector Current Interruption Test was performed on the output connector for 50 cycles (insertion/withdrawal). Testing for additional cycles shall be determined during the end product evaluation, depending on end product application.
11. Equipment markings: Identification marking (trade-mark and model name) are marked on the equipment. However, the marked surface is not to be located an external area where it is likely to be cleaned with cleaning solution, rubbed, etc. Therefore, the durability test was not considered because the equipment is a component level product for building-in.
12. Coolant run through the extruded cooling hole in aluminium heatsink or through the completely sealed stainless tube on heatsink. See Att. 1 & 6. Coolant and connection to coolant assembly is installed outside of power supply converter and in end product installation. LFC requirement is not part of this evaluation and is to be evaluated in end product installation. Equipment for building-in.

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Notes:

Products certified under Class(es) C531167, C531197 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

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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
80304487	2026-06-15	Original CSA c/us evaluation of AC-DC Converter, Model TLP5000-1048 - based on acceptance of data under the CPC program

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