



# Certificate of Compliance

**Certificate:** 80010165

**Master Contract:** 275029

**Project:** 80010165

**Date Issued:** 2020-07-02

**Issued To:** Excelsys Technologies Ltd.  
27 Eastgate Business Park  
Little Island, Cork, CK, 0000  
Ireland

*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.*

**Issued by:** *Eric Fortier*  
Eric Fortier



## **PRODUCTS**

CLASS - C531167 - POWER SUPPLIES Component Type (CSA 62368-1)

CLASS - C531197 - POWER SUPPLIES - Component Type (UL 62368-1) - Component Type (UL 62368-1)

- Certified to US Stds

Component power supplies\* for use with Audio/Video, Information and Communication Technology equipment, where the suitability of the combination is to be determined by CSA Group.

Model: CS10c-de-fghjklm, Rated: Input: 100-240Vac, 50-60Hz, 8.5A – 5A, Class I, 1 phase, 1000W output max rated as follow;

24Vdc model: Output 24Vdc, 41.67A max., Aux Output: 12Vdc, 2A or 5Vdc, 4.8A (see in General Information for details)

48Vdc model: Output 48Vdc, 20.83A max., Aux Output: 12Vdc, 2A or 5Vdc, 4.8A (see in General Information for details)



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**Notes\*:**

1. See General product information for models nomenclature.
2. Grounding of this equipment relies on reliably bonding the chassis to the earthed chassis of the end product.
3. The power supply was evaluated for use at an altitude of up to 5000 meters above sea level, and the clearance requirement has been adjusted by a multiplying factor of 1.48 (linear interpolation was considered), based on IEC60664-1 requirement.
4. Environmental Conditions: Normal operating: -25 to +85°C for screw type AC inlet model and -25 to +50°C for IEC 60320 appliance inlet model, each model type have a reduced output power of 1.67% per °C above 40°C and up to 85°C (or 50°C depending on AC connection type). End product installation must provide and maintain a 50mm minimum clearance all around the power supply to allow for adequate natural convection cooling to take place.
5. This equipment relies on the building installation, branch circuit protection. Suitability of branch circuit protection is to be evaluated in the end use application/installation. External branch circuit protection 20A required. Additional evaluation shall be conducted if a higher protector is to be used in the end system
6. Proper bonding to the end-product main protective earthing termination is required.
7. Capacitor discharge shall be conducted in the end-application per clause 5.5.2.2, as applicable.
8. Earth leakage test shall be conducted in the end-application.
9. The following end-product enclosures are required: Mechanical, Fire, Electrical.
10. The equipment disconnect device is considered to be: Determined in the end product or appliance inlet
11. The power supply was evaluated as a component for use with other information technology equipment where the suitability of the combination is to be determined by CSA Group.
12. Temperature tests were performed with the unit placed horizontally and placed on top of a metal sheet of the following dimensions: 610mm x 610mm x 1mm thick. No forced air cooling was used.
13. To comply with temperature tests, the screws on the DC high power output terminals J4, J5 must all be connected to the load using proper ampacity cables.
14. All wiring materials must be rated at least 105C, 300Vac.
15. The mains supply cord set provided with the equipment must be an approved type acceptable to the authorities in the country where the equipment is sold.
16. The unit can only be used by authorized competent personnel in a restricted access location and in a normal environment, Hazardous Location evaluation was not part of this investigation.
17. User manual states industrial power supply although evaluation under the requirements of industrial safety standards (Ex: UL508) was not part of this investigation.

**APPLICABLE REQUIREMENTS**

- |                                     |   |   |
|-------------------------------------|---|---|
| CAN/CSA C22.2 No. 62368-1-14        | - | Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements |
| ANSI/UL 62368-1, 2 <sup>nd</sup> Ed | - | Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements |



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80010165	2020-07-02	cCSAus Certification for a Component power supply, model CS10c-de-fghjklm. Standard: CAN/CSA C22.2 No. 62368-1-14 and ANSI/UL 62368-1, 2nd Ed. Class: 5311 67 and 5311 97.