



Certificate of Compliance

Certificate: 70038505 (219759)

Master Contract: 219759

Project: 70038505

Date Issued: 2015-08-27

Issued to: Convertec Limited
Whitemill Industrial Estate
Wexford, Wexford
IRELAND
Attention: Michael Carey

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: Bill Bizuk
Bill Bizuk, P.Eng.

PRODUCTS

CLASS - C321187 - INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus - Certified to US Standards

CLASS - C531103 - POWER SUPPLIES - Component Type

CLASS - C531107 - POWER SUPPLIES - Component Type-(CSA 60950-1-03)

CLASS - C531187 - POWER SUPPLIES - Component Type - Certified to US Stds.-(CSA 60950-1-03/UL 60950-1, First Edition, NRTL Program)

CLASS - C531801 - POWER SUPPLIES - For Hazardous Locations

CLASS - C531881 - POWER SUPPLIES - For Hazardous Locations - Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D; Class I, Zone 2, Ex nC IIC T4, AEx nC IIC T4

Component type switching mode power supply * ** ♦, models;

- TSP070-112, (or INBO 012.050) Input rated 115-240Vac, 50-60Hz, 2/1A; Output rated 12Vdc, 6.5A

- TSP090-124, (or INBO 024.025) Input rated 115-240Vac, 50-60Hz, 2.1/1A; Output rated 24Vdc, 3.75A

- TSP090-124N, (or TSP090-124N-A or INBO 024.025N) Input rated 115-240Vac, 50-60Hz, 2.1/1A; Output



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rated 24Vdc, 3.75A (limited output power per Clause 2.5 of IEC60950 and to NEC class II)

- TSP090-148, (or INBO 048.012) Input rated 115-240Vac, 50-60Hz, 2.1/1.0A; Output rated 48Vdc, 2.00A

Component type switching mode power supply * ** ■, models;

- TSP140-112, (or INBO 012.100) Input rated 115/230Vac, 50-60Hz, 4/2A; Output rated 12Vdc, 13A

- TSP180-124, (or INBO 024.050) Input rated 115/230Vac, 50-60Hz, 4/2A; Output rated 24Vdc, 7.5A

- TSP180-148, (or INBO 048.030) Input rated 115/230Vac, 50-60Hz, 4/2A; Output rated 48Vdc, 4.0A

Component type switching mode power supply * ** ■, models;

- TSP360-124, (or INBO 024.100) Input rated 115/230Vac, 50-60Hz, 6/3A; Output rated 24Vdc, 15A

- TSP360-148, (or INBO 048.050) Input rated 115/230Vac, 50-60Hz, 6.0/3.0A; Output rated 48Vdc, 7.50A

Component type switching mode power supply * ** ■, models;

- TSP600-124, (or INBO 024.200) Input rated 115/230Vac, 50-60Hz, 10/5A; Output rated 24Vdc, 26A

- TSP600-148, (or INBO 048.100) Input rated 115/230Vac, 50-60Hz, 10.0/5.0A; Output rated 48Vdc, 12.5A

In brackets are alternative model numbers, same identical unit.

Notes:

1. (*) The products have been certified as components where the suitability of the combination with the end use product shall be re-evaluated. The models in Parts A, B, C and D above, can have the suffix "EX" to denote the printed circuit boards have a conformal coating seal.

2. (**) For Class I, Zone 2, Ex nC IIC/AEx nC IIC, the unit is to be installed in final enclosure, **IP54**, or enclosure Type 4X minimum; alternatively printed wiring boards are coated with suitable sealing compound / conformal coating (two coats); to be evaluated in final installation.

3. (◆) Models may be alternatively rated 100-240Vac or 115-240Vac (wide range input).

4. (■) Models may be alternatively rated 100-120/220-240Vac.

5. Model names/numbers may be alternatively marked with additional suffixes consisting of letters or numbers for non safety relevant changes and have no impact on safety.



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 60950-1-03 - Information Technology Equipment – Safety – Part 1: General Requirements

CSA C22.2 No. 107.1-01 - General Use Power Supplies

CSA C22.2 No. 213-M1987 (R1992) - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA 60079-15-02 - Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection “n”
UL Std. 508, 17th Ed. - Industrial Control Equipment

UL Std. 60950-1, 1st Ed. - Information Technology Equipment - Safety - Part 1: General Requirements

ANSI/ISA 12.12.01 - Electrical Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

ANSI/UL 60079-15, 1st Ed., 2002 - Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Electrical Apparatus with Type of Protection “n”

FM3611 - Nonincendive Electrical Equipment for Use in Class I and Class II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

For reference only:

CSA C22.2 No. 14-95 (R2001) - Industrial Control Equipment

UL Std. 508 (17th Edition) - Industrial Control Equipment

Note: ANSI/ISA 12.12.01 - Electrical Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations, is similar to requirements of FM3611, Approval Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations.

Due to the similarity the subject equipment is considered to comply with requirements of FM3611 as verified by documented test results



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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
70038505	August 27, 2015	Update to Report 1562919 to correct IP rating
2556125	September 7, 2012	Update to Report 1562919 to allow various input ratings ranges on product labels. New Model TSP090-124N-A added.
1805710	December 14, 2006	Update report 1562919 to include new model suffix "EX" and add two alternate Conformal Coating materials, add additional Model Series TSPXXX-148 and evaluate for Hazardous Locations, and evaluate TSP090-124N for use in Hazardous Locations.
1800180	June 19, 2006	Verification and acknowledgement of compliance to UL 508 17th Ed. and CSA107.1-01
1722936	April 25, 2006	Addition of model TSP090-124N with limited power source; for use in "ordinary, non-hazardous" locations; similar to previous TSP090-124
1672308	May 6, 2005	Minor Report Corrections.
1598421	March 18, 2005	Update Report 1562919; Evaluate TSP Series Power supplies for Canada and U.S.; Hazardous Locations, Class I, Div. 2 and Zone 2, Ex n, AEx n
1562919	September 22, 2004	Original certification.

Supplement to Certificate of Compliance