



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1562919

Master Contract: 219759

Project: 1598421

Date Issued: 2005/03/18

Issued to: **Convertec Limited**
Whitemill Industrial Estate
Wexford, Wexford
Ireland
Attention: Mr. Werner Wolffe

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Bill Giesbrecht, CET

Authorized by: Patricia Pasemko, Operations Manager

PRODUCTS

CLASS 5311 07 - POWER SUPPLIES - Component Type (CSA 60950-1-03)

CLASS 5311 87 - POWER SUPPLIES - Component Type (UL60950-1, 1st Edition)

CLASS 9098 01 - Miscellaneous for Hazardous Locations

CLASS 9098 81 - Miscellaneous for Hazardous Locations, Certified to US Standards

Class I, Division 2, Groups A, B, C, D

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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Class I, Zone 2, Ex nC IIC T4 U, AEx nC IIC T4 U

Part A: Component type switching mode power supply*, model;

-TSP070-112, Input rated 100-120/220-240Vac, 50-60Hz, 2/1A; Output rated 12Vdc, 6.5A

-TSP090-124, Input rated 100-120/220-240Vac, 50-60Hz, 2.1/1A; Output rated 24Vdc, 3.75A

Part B: Component type switching mode power supply*, model;

-TSP140-112, Input rated 100-120/220-240Vac, 50-60Hz, 4/2A; Output rated 12Vdc, 13A

-TSP180-124, Input rated 100-120/220-240Vac, 50-60Hz, 4/2A; Output rated 24Vdc, 7.5A

Part C: Component type switching mode power supply*, model;

-TSP360-124, Input rated 100-120/220-240Vac, 50-60Hz, 6/3A; Output rated 24Vdc, 15A

Part D: Component type switching mode power supply*, model;

-TSP600-124, Input rated 100-120/220-240Vac, 50-60Hz, 10/5A; Output rated 24Vdc, 26A

Note(*): The products have been certified as components where the suitability of the combination with the end use product shall be re-evaluated.

APPLICABLE REQUIREMENTS

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

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

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. 60950-1 (1st Edition) - Information Technology Equipment – Safety – Part 1: General Requirements.

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

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/UL60079-15, 1st Ed., 2002 – Electrical Apparatus for Explosive Gas Atmospheres – Part 15: Electrical Apparatus with Type of Protection “n”.

Note: ANSI/ISA 12.12.01 – Electrical Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and



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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.



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
1598421	2005/03/18	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	2004/09/22	Original certification.