



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TSA 09.0006X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2009-03-02)

Status: **Current** Issue No: 1

Date of Issue: 2022-05-02

Applicant: **Trolex Ltd**
Newby Road
Hazel Grove
Stockport
Cheshire SK7 5DY
United Kingdom

Equipment: **TX6630 Series Power Supply Chassis**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: **[Ex ia Ma] I**
Ta = -20°C to +70°C

Approved for issue on behalf of the IECEx
Certification Body:

Ujen Singh

Position:

Quality & Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

02 May 2022

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





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Manufacturer: **Trolex Ltd**
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Manufacturing
locations: **Trolex Ltd**
Newby Road
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR22.0001/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0017/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The TX6630 Series Power Supply Chassis' are powered from an 110Vac or 230Vac mains supply and provide an intrinsically safe nominal 7.5Vdc or 12Vdc output.

The TX6630 Series Power Supply Chassis' consists of a constant voltage transformer, smoothing capacitor, bridge rectifier and current limiting resistors mounted upon a steel backplate; output clamping zener diodes are mounted on a heatsink insulated from, but attached to, the backplate. Optionally, the TX6630 Series Power Supply Chassis may include up to four additional relays mounted on one large or two small PCBs depending upon the version.

Terminals are provided for connection to the mains supply (voltage is selected by a switch or wire link), intrinsically safe dc output and, if fitted, the relay coils and switching contacts.

The TX6630 Series Power Supply Chassis' are intended to be located in an IP20 enclosure in the non-hazardous area, or in an appropriately certified flameproof enclosure in the hazardous area.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annexe of this certificate



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

1. Equipment assessed to the latest standards IEC 60079-0:2017 and IEC 60079-11:2011
2. Change of product type code to TX6630.35(.xx...) – Refer Annexe of this certificate.
3. Change of Specific Conditions of use – Refer Annexe of this certificate.
4. Ex marking code revised in accordance with the standards listed above.
5. Drawings updated. (General arrangement, PCB Artwork and label drawings)

Annex:

[Annexe for IECEx TSA 09.0006X-1.pdf](#)



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 09.0006X	Issue No.:	1
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Equipment description continue:

The TX6630.35(.xx...) Series Power Supply Chassis is an AC to DC convert powered from a 110 or 230 Vac supply, comprising of a transformer, bridge rectifier, smoothing capacitors with current limiting resistors and voltage clamping zener diodes limiting the output.

The TX6630.35(.xx...) Series Power Supply Chassis' are identified in the following format:

Power Supply Chassis TX663*.35(.xx...)

1 – 7.5 V,

5 – 7.5 V,

2 – 12 V,

6 – 12 V,




The TX6630.35(.xx...) Series Power Supply Chassis are powered from an 110Vac or 230Vac mains supply and provide an intrinsically safe nominal 7.5Vdc or 12Vdc output. The TX6630 Series Power Supply Chassis consists of a constant voltage transformer, smoothing capacitor, bridge rectifier and current limiting resistors mounted upon a steel backplate; output clamping zener diodes are mounted on a heatsink insulated from, but attached to, the backplate. Optionally, the TX6630 Series Power Supply Chassis may include up to four additional relays mounted on one large or two small PCBs depending upon the version. Terminals are provided for connection to the mains supply (voltage is selected by a switch or wire link), intrinsically safe dc output and, if fitted, the relay coils and switching contacts. The TX6630 Series Power Supply Chassis are intended to be located in an IP20 enclosure in the non-hazardous area, or in an appropriately certified flameproof enclosure in the hazardous area.

Drawing list pertaining to Issue 1 of this Certificate:

Drawing / Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
P5111.05	1 of 1	General Arrangement (TX6631/TX6632)	C	2008-10-07
P5111-202	1 of 1	*General Arrangement	A	2004-01-15
P5111.13	1 of 1	Constant Voltage Transformer (TX6630 series)	F	2004-01-28
P5111.53	1 of 1	Circuit Diagram (TX6631/2)	E	2008-10-07
P5111.89	1 of 1	PCB Artwork (TX6630 series)	A	1996-12-11
P5111.110	1 of 1	Relay (TX6620/30 Power Supply Series - Ralux)	B	2004-02-03
P5111.201	1 of 1	Circuit Diagram (TX6635/6)	A	2004-02-26
P5111-202-01	1 of 1	General Arrangement (TX6635)	B	2008-09-01
P5111.203	1 to 3	PCB Artwork (Ralux relay version) (TX6635/6)	A	2004-02-03
P5111.206	1 to 3	*PCB Artwork (Finder relay version)	C	2013-03-12
P5111-210	1 of 1	Relay Certification Details (TX6620/30 Power Supply Series - Finder)	A	2004-05-13
P5111.232	1 of 3	PCB - Bottom Layer (TX6635)	B	2008-09-04

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Drawing / Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
P5111.232	2 of 3	PCB - Top Layer (TX6635)	B	2008-09-04
P5111.232	3 of 3	PCB - Top Overlay (TX6635)	B	2009-09-04
P5111.2014	1 of 1	*IECEX Label Drawing – TX6631.35	B	2022-04-12
P5111.2015	1 of 1	*IECEX Label Drawing – TX6632.35	B	2022-04-12
P5111.2016	1 of 1	*IECEX Label Drawing – TX6635.35	B	2022-04-12
P5111.2017	1 of 1	*IECEX Label Drawing – TX6636.35	B	2022-04-12
P5111.1803	1 to 3	*IECEX AUS Certification Information for User Manual	A	2022-04-07

Note: An "*" is added before the title of documents that are new or revised.

Specific Conditions of use pertaining to Issue 1 of this Certificate:

- It is a condition of safe use that the following parameters shall be taken into account during installation:

Terminal block TB1: (L, N)

$U_m = 121$ Vrms for the nominal 110 V AC input

$U_m = 253$ Vrms for the nominal 230 V AC input

Terminals 1, 2

TX6631 / TX6635

$U_o = 9$ V
 $I_o = 3.47$ A
 $P_o = 12.5$ W
 $C_i = 0$
 $L_i = 0$
 $C_o = 1000$ μ F
 $L_o = 54$ μ H
 $L_o/R_o = 48$ μ H/ Ω

TX6632 / TX6636

$U_o = 14.4$ V
 $I_o = 2.37$ A
 $P_o = 9.84$ W
 $C_i = 0$
 $L_i = 0$
 $C_o = 20$ μ F
 $L_o = 100$ μ H
 $L_o/R_o = 54$ μ H/ Ω


Optional relay boards:

$U_i = 14.4$ V (terminals 4, 6, 8 and 10 wrt 2)

$U_m = 250$ Vac (terminals 11-13, 14-16, 17-19 and 20-22)

- When the apparatus is installed within a potentially explosive atmosphere, an additional alternative type of protection as listed in IEC 60079-0 must be provided and installed in accordance with the requirements of IEC 60079-25.
- When the equipment is installed in the safe area, it must be installed in an enclosure providing a degree of protection of not less than IP 20 and installed in accordance with the requirements of IEC 60079-25.

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