



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: **IECEX TSA 09.0006X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2009-03-02** Page 1 of 3

Applicant: **Trox Limited**
10 Newby Road
Hazel Grove
Stockport
Cheshire
SK7 6BS
United Kingdom

Electrical Apparatus: **TX6630 Series Power Supply Chassis**
Optional accessory:


Type of Protection: **[Ex ia]**

Marking: **Trox**
Power Supply TX6631 or 6632 or 6635 or 6636
[Ex ia] I
IECEX TSA 09.0006X
S. No.

Approved for issue on behalf of the IECEx Certification Body: **Ujen Singh**

Position: **Quality and Certification Manager**

Signature:
(for printed version)



02 MARCH 2009.

Date:

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 the Official IECEx Website.

Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





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Manufacturer: **Trolex Limited**
Newby Road
Hazel Grove
Stockport
Cheshire
SK7 5DY
United Kingdom

Manufacturing location(s):

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 electrical apparatus 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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*This Certificate **does not** indicate compliance with electrical 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/BAS/ExTR07.0078/01

Quality Assessment Report:

GB/SIR/QAR07.0017/00



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Schedule

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.

CONDITIONS OF CERTIFICATION: YES as shown below:

Conditions of Safe Use are provided in the attachment to this certificate



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 09.0006X	Issue No.:	0
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Model range covered by this Certificate:

The TX6630 Series Power Supply Chassis' are identified in the following format:

POWER SUPPLY CHASSIS TX663X.11.2X

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> 1 - 7.5V, twin PCB 5 - 7.5V, single PCB 2 - 12V, twin PCB 6 - 12V, single | | <ul style="list-style-type: none"> 1. No relays 2. Two relays 3. Four relays |
|--|--|---|

The TX6631/TX6635 provide an intrinsically safe 7.5Vdc output and the TX6632/TX6636 provide an intrinsically safe 12Vdc output.

Drawing list pertaining to Issue 0 of this Certificate:

Document No.	Sheets	Document Title	Issue	Date
P5111.05	1 of 1	General Arrangement (TX6631/TX6632)	C	07.10.08
P5111.13	1 of 1	Constant Voltage Transformer (TX6630 series)	F	28.01.04
P5111.53	1 of 1	Circuit Diagram (TX6631/2)	E	07.10.08
P5111.75	1 of 1	I.S. Label Details Chassis	F	17.02.09
P5111.89	1 of 1	PCB Artwork (TX6630 series)	A	11.12.96
P5111.110	1 of 1	Relay (TX6620/30 Power Supply Series - Ralux)	B	03.02.04
P5111.201	1 of 1	Circuit Diagram (TX6635/6)	A	26.02.04
P5111-202-01	1 of 1	General Arrangement (TX6635)	B	01.09.08
P5111.203	1 to 3	PCB Artwork (Ralux relay version) (TX6635/6)	A	03.02.04
P5111.206	1 to 3	PCB Artwork (Finder relay version) (TX6635/6)	B	08.09.04
P5111-210	1 of 1	Relay Certification Details (TX6620/30 Power Supply Series - Finder)	A	13.05.04
P5111.232	1 of 3	PCB - Bottom Layer (TX6635)	B	04.09.08
P5111.232	2 of 3	PCB - Top Layer (TX6635)	B	04.09.08
P5111.232	3 of 3	PCB - Top Overlay (TX6635)	B	04.09.08

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IECEX Certificate of Conformity Annexe

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Conditions of Certification pertaining to Issue 0 of this Certificate:

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

Terminal block TB1:

U_m = 121 or 253Vrms selected by changing links on the main PCB

7.5V TX6631 / TX6635

Terminals 1, 2

U_o = 9V
 I_o = 3.47A
 P_o = 12.5W
 C_i = 0
 L_i = 0
 C_o = 100 μ F
 L_o = 54 μ H
 L_o/R_o = 48 μ H/ Ω

12V TX6632 / TX6636

Terminals 1, 2

U_o = 14.4V
 I_o = 2.37A
 P_o = 9.84W
 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:

7.5V TX6631 / TX6635

U_i = 9V (terminals 4, 6, 8 & 10)
 U_m = 250Vac (terminals 11 - 22)

12V TX6632 / TX6636

U_i = 14.4V (terminals 4, 6, 8 & 10)
 U_m = 250Vac (terminals 11 - 22)

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