



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 CML 23.0007X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2023-04-07		
Applicant:	Trox Limited 10 Newby Road Hazel Grove, Stockport Cheshire SK7 5DY United Kingdom		
Equipment:	TX6641.35(.xx...) Intrinsically Safe Power Supply Chassis		
Optional accessory:			
Type of Protection:	Intrinsic Safety "i"		
Marking:	[Ex ia Ma] I $T_a = -20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$		

Approved for issue on behalf of the IECEx
Certification Body:

Ben Trafford

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

2023-04-07

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Date of issue: 2023-04-07

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Manufacturer: **Trox Limited**
10 Newby Road
Hazel Grove, Stockport
Cheshire SK7 5DY
United Kingdom

Manufacturing
locations:

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/ExTR23.0019/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0017/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Refer to Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to certificate annex

Annex:

[IECEX CML 23.0007X issue 0 Annex \(3\).pdf](#)

Annexe to: IECEx CML 23.0007X Issue 0

Applicant: Trolex Ltd

Apparatus: TX6641.35(.xx...) Intrinsically Safe Power Supply Chassis

Description

TX6641.35(.xx...) Intrinsically Safe Power Supply Chassis is designed to provide an intrinsically safe supply to intrinsically safe equipment. It comprises a printed circuit board (PCB) that accommodates an intrinsically safe transformer, voltage clamping components, current and power limiting circuitry.

The following options are available:

Input supply options:

Variant	Um
24 V rms,	26.4 V rms
110 V rms	121 V rms
230 V rms	253 V rms

Output options: 7.5 Vdc, 500 mA or 12 Vdc, 900 mA

The connection to external hazardous area equipment is made via connector J7 and the entity parameters are as follows :

Variant	Uo	Io	Po	Co	Lo/Ro
7.5 Vdc, 500 mA	8.5 V	0.873 A	5.28 W	646 μ F	72.69 μ H/ Ω
12 Vdc, 900 mA	13 V	1.76 A	12.73 W	30.29 μ F	36.17 μ H/ Ω

The TX6641.35(.xx...) may optionally be fitted with two relay boards providing four relay interfaces that have the following entity parameters:

Option1		I.S. circuit terminals 3,5,7,9 wrt 0 V	Non I.S. circuit to relay contact terminals a, b and c of Relays 1-4	
Variant	Relay type	Ui	Um	Im
7.5 Vdc, 500 mA	9V	8.5 V	375 V Peak	5 A
12 Vdc, 900 mA	12 V	13 V		



Certificate Annex IECEx
Version: 9.0 Approval: Approved

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Option2		Non-I.S. circuit terminals 3,5,7,9 wrt 0 V	I.S. circuit to relay contact terminals a, b and c of Relays 1-4	
Variant	Relay type	Um	Ui	Ii
7.5 Vdc, 500 mA	9 V	8.5 V	30 V Peak	5 A
12 Vdc, 900 mA	12 V	13 V		

The TX6641.35(.xx...) was previously certified as TX6641 under certificate number SIRA 01ATEX2229X and IECEx SIR 10.0107X.

Conditions of Manufacture

The following are conditions of manufacture.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. All Mains Transformers shall satisfy the following routine Dielectric Strength test requirements of EN/IEC 60079-11 CL 11.2:
 - 2,500 Vrms between primary and secondary windings; 1,000 Vrms between all windings and screen or core

Specific Conditions of Use

The following relate to the installation and/or safe use of the equipment.

- i. When the apparatus is installed within a potentially explosive atmosphere, an additional certified enclosure with a type of protection as listed in EN IEC/IEC 60079-0 must be provided. The complete equipment shall satisfy the requirements of EN/IEC 60079-25.
- ii. 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 EN/IEC 60079-25.