Australian/New Zealand
Certification Scheme for
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT
ANZEx Scheme

Certificate of Conformity

Certificate No.: **ANZEx 14.3001X** Issue No.: **0** Date of Issue: **2014-04-14**

Applicant: Trolex Limited
Newby Road, Hazel Grove
Stockport, Cheshire, SK7, 5DY
United Kingdom

Electrical Apparatus: TX6642 Flameproof Power Supply

Type of Protection: Ex d [ia] I Mb

Marking Code: Trolex Limited
Type:
Ex d [ia] I Mb
S/N:
ANZEx 14.3001X

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

Manufacturing Location(s): Same as above

*The EPEE certification database located at **http://www.anzex.com.au** shows the validity of this Certificate.*

Test Safe AUSTRALIA

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753
Australia
Phone: +61 2 4724 4900 Fax: +61 2 4724 4999
http://www.testsafe.com.au

JAS-ANZ

www.jas-anz.org/register

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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008**.*

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 60079.0:2007:	**Explosive gas atmospheres – Part 0: Equipment – General requirements**
IEC 60079.1:2007:	**Explosive gas atmospheres – Part 1: Equipment protection by flameproof enclosure 'd'**
IEC 60079-11:2011:	**Explosive atmospheres: Part 11: Equipment protection by intrinsic safety 'i'**
IEC 60079-0:2011*:*	**Explosive atmospheres: Part 0: Equipment- general requirements**

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

ASSESSMENT & TEST REPORTS:

The equipment listed has successfully met the assessment and test requirements as recorded in:

Test Report No. and Issuing Body: **34525 – TestSafe Australia**

Quality Assessment Report No. and Issuing Body: **GB/SIR/QAR07.0017/04 – 55A/30993 – SIRA**

File Reference: **2013/006234**

Ujen Singh — *Signed for and on behalf of issuing body*

14 April 2014 — *Date of Issue*

Quality & Certification Manager — *Position*

This certificate is not transferable and remains the property of the issuing body and must be returned in the event of it being revoked or not renewed.

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Schedule

EQUIPMENT:

The TX6642 power supply is a TX6641 intrinsically safe power supply, already certified under ANZEx 14.3006X, fitted in flameproof housing. The power supply has a mains power input, intrinsically safe output(s) and optional control relay circuits.

The enclosure is fabricated from mild steel and has a bolt on sheet steel cover retained by stainless steel hexagonal socket headed screws Grade A2/70. The enclosure is of two compartments. The main one being of flameproof construction and intended to house the power supply, the other having no Ex protection and intended to house the terminals of the IS circuits. The enclosure includes a potted feed through bushings Bartec Type 07-9102-E122 and Type 07-9102-E06D in the common wall of the compartments for transit of the IS circuits. These bushings are certified under IECEx scheme with certificate IECEx PTB 06.0093U.

Five threaded entries M25 or M20 are provided for power supply and relay contact circuit and they will be closed with suitable certified Ex d cable glands or blanking plugs.

CONDITIONS OF CERTIFICATION:

1. It is a condition of specific use that the flamepath dimensions will be maintained in accordance with dimensions detailed in drawing P5531-02-02.
2. It is a condition of safe use that installation entry to the main compartment shall be via suitably Ex d certified cable gland.
3. It is a condition of safe use that the connections to the relay boards must both be configured as either to IS circuits or non-IS circuits. It is not permitted to mix the connection of IS and non-IS circuits to these relays.

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4. It is a condition of safe use that the following parameters are taken into account in the installation:

Product Code	PSU Type	Uo	Io	Po	Co	Lo/Ro
109.1205	7.7 V 0.5 A	8.5 V	0.873 A	5.28 W	646 µF	72.69 µH/Ω
109.1204	7.7 V 1.0 A	8.5 V	1.76 A	10.63 W	560 µF	36.17 µH/Ω
109.1203	7.7 V 1.4 A	8.5 V	1.76 A	10.63 W	560 µF	36.17 µH/Ω
109.1202	7.7 V 1.8 A	8.5 V	1.76 A	10.63 W	560 µF	36.17 µH/Ω
101.1205	12.35 V 0.5 A	13.0 V	0.873 A	6.33 W	32 µF	72.69 µH/Ω
101.1204	12.35 V 1.0 A	13.0 V	1.76 A	12.73 W	30.29 µF	36.17 µH/Ω
101.1203	12.35 V 1.4 A	13.0 V	2.38 A	17.23 W	19.46 µF	26.72 µH/Ω
101.1202	12.35 V 1.8 A	13.0 V	2.38 A	17.23 W	19.46 µF	26.72 µH/Ω
101.1204 (alt)	12.35 V 1.0 A	12.35 V	1.8 A	10.45 W	30 µF	44.63 µH/Ω

Product Code	PSU Type	Um (Terminals marked 'ac Supply')
103	24 V rms supply	24 V rms
105	110 V rms supply	110 V rms
106	230 V mains supply	230 V rms

Product Code	PSU Type	Terminals marked R1, R2, R3, R4	
19	Fitted with Relay board	Um: 375 V rms	Im: 5 A rms
		or	
		Ui: 30 V	Ii: 5 A

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DOCUMENTS:

Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
P5531-02-01	1	General Arrangement (TX6641 power Supply Chassis)	C	2003-06-16
P5531-02-02	1	General Arrangement	E	2014-03-25
P5111.23	1	Cover	B	1986-03-17
P5111.43	1	Housing	D	1997-01-20
P5111.24	1	Terminal Enclosure lid	-	1985-09-17
P5531-100	1	Certification Labelling - Australian	B	2014-02-05