



Mining And Surface Certification (Pty) Ltd

2015/021934/07



Certificate Number:

MASC M/11-316X

Issued:

25 April 2016

Expire:

25 April 2019

Page: 1 of 3

IA – CERTIFICATE

(Supplement 2: Revised by MASC as per ARP 0108)

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

Ex – Type Examination

Certificate number:

MASC M/11-316X

Equipment:

Type TX6620 Series Power Supply Unit

Serial No:

(See Conditions of Certification)

Applicant:

Trolex Limited.

Address:

10a Newby Road
Hazel Grove
Stockport
Cheshire
SK14 6NG
United Kingdom

Manufacturer:

Trolex Limited.

Address:

10a Newby Road
Hazel Grove
Stockport
Cheshire
SK14 6NG
United Kingdom

DESCRIPTION:

Type TX6620 Power Supply Unit rate at an input of up to 120/240V a.c. 50/60Hz and an output of up to 14.4V d.c. and up to 2.37A comprising:

A main enclosure, fabricated in mild steel, containing an intrinsically safe power (IS) supply chassis, covered by certificate Baseefa03ATEX0732X with an inter-compartmental bushing as certificate number PTB96ATEX1078X leading through the compartment wall into an integral chamber for IS circuits.

The enclosure has a mild steel bolt on front cover.

The unit is fitted with an internal and external earth connection.

Up to five cable entry holes are provided as specified on the certificate schedule drawings for the accommodation of suitable certified flameproof cable entry devices (with or without the interposition of a suitable certified flameproof thread adaptor) or suitable certified stopping plug where appropriate. The flameproof cable entry device, thread adaptor and stopping plug must be certified as Group I Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

/ . Suitable...

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Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07

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IA CERTIFICATE NUMBER: MASC M/11-316X

Type TX6620 Series Power Supply Unit
(Flameproof and Intrinsic Safety)
(Supplement 2)

Page 2 of 3

Suitable component certified cable entry devices, thread adaptors and stopping plugs shall be listed in the certificate schedule.

The cable entry device and cabling methods used in service must be suitable for their intended duty and the special types of cable used in mining.

VARIATION 0.1

Alternative IS power supply chassis as covered by certificate Baseefa03ATEX0732X

VARIATION 0.2

Alternative size of cable glands and/ or inter-compartmental bushings.

MARKING:

Baseefa marking remains applicable. The following MASC Certificate number (IA number) must be additionally applied to the equipment.

IA No: MASC M/11-316X

COMPLIANCE:

The unit as described above and in MASC Letter **11-316 R2** is hereby certified "Explosion Protected" Ex d [ia] I and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS Standards:

The evaluation was conducted according to the requirements of:

- SANS (IEC) 60079-0: 2005 "Explosive atmospheres – Part 0: Equipment — General requirements"
- SANS (IEC) 60079-1: 2004 "Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures 'd'"
- SANS (IEC) 60079-11: 2007 "Explosive atmospheres – Part 11: Equipment protection by intrinsic safety 'i'"

| | | |
|----------------------|------------------|---|
| Location | Zone 0*, 1 & 2 | Mining/ Coal dust |
| Hazard Frequency | | Intermittent as could occur under normal operating conditions (*Outputs only) |
| Environment | Group I | Methane / Coal Dust |
| Limiting Temperature | 150°C | |
| Ambient Temperature | (-20°C to +40°C) | |

/ . The use...

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IA CERTIFICATE NUMBER: MASC M/11-316X

Type TX6620 Series Power Supply Unit
(Flameproof and Intrinsic Safety)
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Page 3 of 3

The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- i) SANS 10086 requirements;
- ii) Any conditions mentioned in the above report;
- iii) Codes of Practice enforced in terms of Regulations 21.17.2 of Minerals Act, by Chief Inspector of Mines;
- iv) Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- v) Any relevant requirements of the MHS Act or the OHS Act.

SPECIAL CONDITIONS OF USE (X):

- A means of electrical isolation shall be provided on the supply side of the enclosure.
- For replacement purpose the cover fixing screws shall be of grade A2-70 stainless steel or stronger.

CONDITIONS OF CERTIFICATION:

1. This Certificate remains valid based on a three yearly review covered by an official MASC letter.
2. The apparatus must be additionally marked in a clear, legible, visible and indelible manner with the MASC marking details above.
3. This certificate of approval only covers the equipment as certified above and does not include any scheduled additions or variations/amendments/new issues to the certificate(s), made after the above date.
4. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by Baseefa and in this approval.
5. The Baseefa certification must remain valid.
6. The bearing of the requirements in the ARP 0108 (or regulations) and SANS 10108 on the certification of the equipment must remain unchanged.
7. All production units must be covered by a QAN, Mark Scheme or Batch Evaluation.



A. Koekemoer
TECHNICAL OFFICER



F du Toit
TECHNICAL SPECIALIST

Mining And Surface Certification

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MASC takes no responsibility for any non-conformances, exclusions or any results / assessments not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and routine tests have been successfully completed and the product complies with the documentation and standard(s).

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