



## EU Type Examination Certificate CML 21ATEX21183X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Type TX6620.35(.xx...) Power Supply Unit**
- 3 Manufacturer **Trolex Ltd**
- 4 Address **Newby Road, Hazel Grove,  
Stockport, SK7 5DY,  
United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:  
  
EN IEC 60079-0:2018                      EN 60079-1:2014                      EN 60079-11:2012
- 10 The equipment shall be marked with the following:



I M2 (M1)

Ex db [ia Ma] I Mb



CML 21ATEX21183X  
Issue 0

## 11 Description

The Type TX6620.35(.xx...) Power Supply Unit comprises a flameproof enclosure with a bolt on front cover, fabricated from mild steel, that houses a separately certified IS power supply chassis. The IS power supply chassis is certified under CML 21ATEX21184X. The main enclosure houses the IS PSU with an adjoining chamber that houses the IS terminals through a certified bushing. The IS Power Supply Chassis has the following parameters:

### Terminal block TB1: (L, N)

Um = 121 Vrms for the nominal 110 V AC input

Um = 253 Vrms for the nominal 230 V AC input

TX6622/TX6626	TX6621/TX6625
U <sub>o</sub> = 14.4 V	U <sub>o</sub> = 9 V
I <sub>o</sub> = 2.37 A	I <sub>o</sub> = 3.47 A
P <sub>o</sub> = 9.84 W	P <sub>o</sub> = 12.5 W
C <sub>i</sub> = 0	C <sub>i</sub> = 0
L <sub>i</sub> = 0	L <sub>i</sub> = 0
C <sub>o</sub> = 20 μF	C <sub>o</sub> = 1000 μF
L <sub>o</sub> = 100 μH	L <sub>o</sub> = 54 μH
L <sub>o</sub> /R <sub>o</sub> = 54 μH/Ω	L <sub>o</sub> /R <sub>o</sub> = 48 μH/Ω

### Optional relay boards (RL1 – RL4)

U<sub>i</sub> = 14.4 V (terminals 4, 6, 8 and 10 wrt 2)

U<sub>m</sub> = 250 Vac (terminals 11-13, 14-16, 17-19 and 20-22)

There are up to five cable entries to the enclosure that must be populated with certified cable glands or stopping plugs/blanks.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	22 Apr 2022	R14664A/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.



**CML 21ATEX21183X**  
**Issue 0**

### **13 Conditions of Manufacture**

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Each unit shall be subjected to a routine overpressure test in accordance with EN 60079-1 clause 16.1 at 10 bar for at least 10 s. There shall be no permanent deformation or damage to the enclosure.

### **14 Specific Conditions of Use (Special Conditions)**

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

- i. A means of electrical isolation shall be provided on the supply side of the enclosure.
- ii. The cover fixings shall be of grade A2-70 stainless steel or stronger.
- iii. In accordance with clause 5.1 of EN 60079-1, the flameproof joints shall not be repaired; for maintenance or repairs contact the manufacturer.

## Certificate Annex

**Certificate Number** CML 21ATEX21183X  
**Equipment** Type TX6620.35(.xx...) Power Supply Unit  
**Manufacturer** Trolex Ltd



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
P5111.45.ATEX.IECEEx	1 of 1	A	22 Apr 2022	General Arrangement - Enclosure
P5111-43	1 of 1	E	22 Apr 2022	Housing
P5111.2006	1 of 1	A	22 Apr 2022	ATEX Label Drawing – TX6621.35
P5111.2007	1 of 1	A	22 Apr 2022	ATEX Label Drawing – TX6622.35
P5111.2008	1 of 1	A	22 Apr 2022	ATEX Label Drawing – TX6625.35
P5111.2009	1 of 1	A	22 Apr 2022	ATEX Label Drawing – TX6626.35