

1 **EU - Type Examination Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres, Directive 2014/34/EU

3 Certificate Number: ExVeritas 25 ATEX 2069X Issue: 0

4 Equipment: Temporary 400VA Transformer Unit

5 Manufacturer: Wolf Safety Lamp Company Ltd.

6 Address: Saxon Road Works, Sheffield, South Yorkshire, S8 0YA, United Kingdom

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Chapter 4 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this report:

EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015+A1:2018
EN IEC 60079-31:2024

10 If the sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified component in accordance to the Council Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 2 GD

Ex eb db IIC T4 Gb

Ex tb IIIC T100°C Db IP66

-20 °C ≤ Tamb ≤ +30 to +55 °C

(Upper Tamb dependant on maximum load power V/A)

Schedule

13 Description of Equipment or Protective System

The LL-### transportable power distribution system is designed for use in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous areas as a temporary power transformer intended for use with temporary lights and ancillary equipment.

The temporary power distribution system consist of a component certified non-metallic enclosure that is fitted with between one to six external flush mount component certified increased safety and flameproof APPLETON-ATX PCX/EN electrical connectors (max three per side) used to power a range of lights and ancillary equipment. The enclosure is fitted with a base plate that is populated with component approved increased safety transformer, increased safety and flameproof fuse-holders and increased safety terminals. The system is externally powered via a nominal 100-110, 220-240 or 400-500 Vac mains supply via a permanently fitted cable and plug with an output of either 24, 42, 48, 100, 110 or 230 Vac and maximum rated load of up to 400 VA depending on the maximum upper ambient temperature in which the equipment is used. The complete assembly is rated IP66 and suitable for use in wet and dusty conditions.

The complete enclosure is mounted to a steel transformer skid to allow for manual transportation of the equipment and has an optional earth bond between the steel frame and the earth stud of the main enclosure.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R5478/A/1	16/04/2025	0	Initial issue of the Prime Certificate

14.2 Technical Documents:

Title	Drawing number	Issue/ Revision	Date
GRP Transformer (sheets 1 to 2)	LL-710	1	24/03/2025
GRP Transformer Approval Label (sheet 1 of 1)	LL-720	1	15/04/2025
Operation & Maintenance Instructions (sheets 1 to 4)	LL-1605	1	-

15 Manufacturer's Responsibility

15.1 Special Conditions for Safe Use:

- Upper ambient temperature shall not exceed the limits defined for maximum load power (VA), see instructions for safe use.
- The equipment shall only be used in a vertical orientation as indicated on the front of the equipment via a "THIS WAY UP" label.

Certificate 25 ATEX 2069X Issue 0

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Schedule

15.2 Routine Tests

1. Dielectric strength testing shall be carried out on the primary and secondary circuits at the following voltages dependant on the input and output supply configuration per the requirements of clause 7.1 of EN/IEC 60079-7.

Primary transformer circuit

- Input supply 110 or 220-240 Vac = 1500 Vrms (0 to +5 %)
- Input supply 400 Vac = 1800 Vrms (0 to +5 %)
- Input supply 500 Vac = 2000 Vrms (0 to +5 %)

Secondary transformer circuit

- Output supply 24, 42 or 48 Vac = 500 Vrms (0 to +5 %)
- Output supply 110 or 230 Vac = 1500 Vrms (0 to +5 %)

Maintained for at least 1 min without dielectric breakdown occurring. Alternatively, a test shall be carried out at 1,2 times the test voltage, but maintained for at least 100 ms. A d.c. test voltage is permitted as an alternative to the specified a.c. test voltage and shall be 140 % of the specified a.c., r.m.s. test voltage for situations where air or creepage distance is the insulating medium.

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.