

1. **EU-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**

3. EU-Type Examination Certificate Number: **EESF 19 ATEX 071X**

4. Product: **Flameproof power supply**

Certified types: **SHGV...**

5. Manufacturer: **ZAVOD GORELTEX Co. Ltd.**

6. Address: **195176, Saint Petersburg, Revolutsii road, 18, lit. A
Russian Federation**

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

8. Eurofins Expert Services Oy, Notified Body number 0537, 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. RU/CCVE/ExTR19.0003/00.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-31:2014

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



**II 2 G Ex db IIC T6 Gb
II 2 D Ex tb IIIC T80 °C Db
IP66**

Espoo, 12.12.2019
Eurofins Expert Services Oy

Kari Koskela
Expert

Ilkka Riihimäki
Expert

This document is digitally signed.

13. **Schedule**

 14. **EU-Type Examination Certificate EESF 19 ATEX 071X**

 15. **Description of Product**
Equipment and systems covered by this certificate are as follows:

Flameproof power supply SHGV...is intended for DC voltage supply to electrical equipment.

Enclosure of power supply is made of aluminum alloy. Certified control element is installed in the enclosure for power control of storage battery placed inside. A window may be mounted for indication of equipment operation. Heater is used in product structure for provision of uninterruptible operation at subzero temperatures. Power supply is protected against short circuit, against temperature rise and against overload by fuse.

Technical characteristics:

Input: 220-230 V AC 50/60 Hz or 12-36 V DC.

Output: 12 V DC.

Degree of protection (EN 60529): IP66.

Ambient temperature range, °C: minus 50... + 60.

Main technical characteristics and structure of designation are given in the operation, safety and maintenance manual LGSA.1.021.2018.

Power supply can be applied with ATEX certified light fixtures manufactured by "ZAVOD GORELTEX" Co. Ltd. Connection of power supply and a light fixture is carried out via a certified adapter for encapsulation with compound.

The equipment can have additional designation "QFM..." or "UVG..." in accordance with "ZAVOD GORELTEX" Co. Ltd. classifier.

 16. **Report Number**

RU/CCVE/ExTR19.0003/00

 17. **Specific Conditions of Use**

1. The cable glands and other devices which can be installed are subject to a separate certification as Ex-equipment and they shall not invalidate the type of protection and IP degree of protection and shall correspond to connecting thread, its size and type of inserted cable.
2. Unused openings shall be closed with plugs certified as equipment which does not invalidate the type of explosion protection of the power supply.
3. Connection of power supply to other devices shall be in accordance with the requirements of EN 60079-14 and the operation, safety and maintenance manual LGSA.1.021.2018.
4. Electrical mains shall be de-energized before the connection to the power supply.
5. The power supply shall be turned off before the connection to electrical equipment.

 18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

 19. **Drawings and Documents**

Drawings and documents are listed in the confidential report RU/CCVE/ExTR19.0003/00.