



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CCVE 18.0012X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-31)

Status: **Current**

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Date of Issue: **2019-01-31**

Applicant: **"ZAVOD GORELTEX" Co. Ltd.**  
195176, Saint Petersburg, Revolutsii road, 18, lit. A  
**Russian Federation**

Equipment: **Explosion-proof light fixtures series SGU01..., SGP05..., SGR07...**

Optional accessory:

Type of Protection: **Ex db, Ex eb, Ex mb, Ex tb**

Marking:

Ex db eb mb IIC T6...T4 Gb and/or

Ex tb IIIC T51°C...T111°C Db

IP54/IP66

Approved for issue on behalf of the IECEx  
Certification Body:

Alexander Zalogin

Position:

Head of CB CCVE

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**NANIO CCVE**  
Zavod ECOMASH, VUGI Settlement  
Lyubertsy, Moscow region  
140004  
Russian Federation





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Manufacturer: **"ZAVOD GORELTEX" Co. Ltd.**  
193149, Novosaratovka township area, liter A, Vsevolzhsky district, Leningrad region  
**Russian Federation**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2014</b> Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

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

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[RU/CCVE/ExTR19.0002/00](#)

Quality Assessment Report:

[RU/CCVE/QAR16.0004/00](#)

[RU/CCVE/QAR16.0004/01](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Light fixtures series SGU01..., SGP05..., SGR07... are intended for lighting of rooms, open production sites and other facilities where lighting is required.

The enclosure of the light fixture has two compartments: a flameproof enclosure, in which LED light sources are arranged and a thin-walled enclosure, in which power supply for LEDs with the type of protection encapsulation "m" and certified terminals for connection to external power supply are placed. Light-transmitting part is made of tempered glass and has a sealed connection with an enclosure. Entries for installation of cable glands, plugs and other accessories are arranged on the thin-walled enclosure.

Electric mains or power supply unit can be a source of power.

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

Degree of protection (IEC 60529): IP54/IP66.

Supply voltage: 110-230V AC, 10-36V DC.

The temperature class is a function of the enclosure size, of the maximum power and ambient temperature as specified in the tables 1, 2, 3 given in the Annex to this certificate.

Main technical characteristics and structure of designation are given in the operation, safety and maintenance manual LGSA.1.019.2018.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Cables used for connection of light fixtures shall be suitable for operation in the same temperature conditions as the relevant products and shall be resistant to the temperature which occurs on the surface of the enclosure.
2. 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.
3. Unused openings shall be plugged with certified plugs which do not invalidate the type of explosion protection of the light fixture.

### Annex:

[18.0012X Annex.pdf](#)



Table 1. Technical characteristics of SGU01... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power Pinst, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGU01-1240S-12DC	1240	9,6	T6	53	T6	63	T6	73
SGU01-1240S-220AC	1240	9,6	T6	54	T6	64	T6	74
SGU01-2480S-12DC	2480	18,5	T6	60	T6	70	T6	80
SGU01-2480S-220AC	2480	18,5	T6	60	T6	70	T6	80
SGU01-3720S-12DC	3720	28,5	T6	64	T6	74	T6	84
SGU01-3720S-220AC	3720	28,5	T6	63	T6	73	T6	83
SGU01-4960S-12DC	4960	37	T6	63	T6	73	T6	83
SGU01-4960S-220AC	4960	37	T6	62	T6	72	T6	82
SGU01-7440S-12DC	7440	59	T6	69	T6	79	T5	89
SGU01-7440S-220AC	7440	59	T6	68	T6	78	T5	88
SGU01-9920S-12DC	9920	71	T6	75	T5	85	T5	95
SGU01-9920S-220AC	9920	71	T6	74	T6	84	T5	94
SGU01-14880S-12DC	14880	110	T6	68	T6	78	T5	88
SGU01-14880S-220AC	14880	110	T6	68	T6	78	T5	88
SGU01-19840S-12DC	19840	147	T6	73	T6	83	T5	93
SGU01-19840S-220AC	19840	147	T6	74	T6	84	T5	94
SGU01-24800S-12DC	24800	184	T6	81	T5	91	T4	101
SGU01-24800S-220AC	24800	184	T6	81	T5	91	T4	101

Table 2. Technical characteristics of SGP05... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power Pinst, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGP05-5080S-220AC	5080	37	T6	66	T6	76	T5	86
SGP05-5080S-12DC	5080	37	T6	66	T6	76	T5	86
SGP05-17696S-220AC	17696	134	T6	72	T6	82	T5	92
SGP05-17696S-12DC	17696	134	T6	70	T6	80	T5	90
SGP05-22120S-220AC	22120	168	T6	81	T5	91	T4	101

Model	Maximum luminous flux of the light source, lm	Installed power Pinst, W	-60°C ≤ T <sub>amb</sub> ≤ +40°C		-60°C ≤ T <sub>amb</sub> ≤ +50°C		-60°C ≤ T <sub>amb</sub> ≤ +60°C	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGP05-22120S-12DC	22120	168	T6	81	T5	91	T4	101
SGP05-26544S-220AC	26544	202	T5	91	T4	101	T4	111
SGP05-26544S-12DC	26544	202	T5	90	T5	100	T4	110

Table 3. Technical characteristics of SGR07... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power Pinst, W	-60°C ≤ T <sub>amb</sub> ≤ +40°C		-60°C ≤ T <sub>amb</sub> ≤ +50°C		-60°C ≤ T <sub>amb</sub> ≤ +60°C	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGR07-1240S-220AC	1240	9,6	T6	52	T6	62	T6	72
SGR07-1240S-12DC	1240	9,6	T6	51	T6	61	T6	71
SGR07-2480S-220AC	2480	18,5	T6	56	T6	66	T6	76
SGR07-2480S-12DC	2480	18,5	T6	55	T6	65	T6	75
SGR07-3720S-220AC	3720	28,5	T6	62	T6	72	T6	82
SGR07-3720S-12DC	3720	28,5	T6	60	T6	70	T6	80
SGR07-4960S-220AC	4960	37	T6	62	T6	72	T6	82
SGR07-4960S-12DC	4960	37	T6	61	T6	71	T6	81
SGR07-7440S-220AC	7440	59	T6	66	T6	76	T5	86
SGR07-7440S-12DC	7440	59	T6	66	T6	76	T5	86
SGR07-9920S-220AC	9920	71	T6	68	T6	78	T5	88
SGR07-9920S-12DC	9920	71	T6	66	T6	76	T5	86

The light fixtures can have additional designation “QFM...” or “UVG...” in accordance with “ZAVOD GORELTEX” Co. Ltd. classifier.