



# 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 16.0002X Issue No: 0 Certificate history:  
Issue No. 0 (2016-01-28)

Status: **Current** Page 1 of 3

Date of Issue: **2016-01-28**

Applicant: **Electrotechnical company EIP**  
11A, Karla Marksa Str., Aleksin, Tula region, 301363, Russia  
**Russian Federation**

Equipment: **High-voltage power supply IPM**  
*Optional accessory:*

Type of Protection: **Flameproof enclosure d, increased safety e, oil immersion o**

Marking: Ex d e o IIB T6 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

Alexander Zalogin

Position:

Head of NANIO "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"**  
109377, Moscow, P.O.Box 22,  
Russian Federation





# IECEX Certificate of Conformity

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Manufacturer: **Electrotechnical company EIP**  
11A, Karla Marksa Str., Aleksin, Tula region, 301363, Russia  
**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 electrical 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 60079-6 : 2007-03</b> Edition:3	Explosive atmospheres - Part 6: Equipment protection by oil immersion "o"
<b>IEC 60079-7 : 2006-07</b> Edition:4	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/ExTR16.0002/00](#)

Quality Assessment Report:

[RU/CCVE/QAR16.0001/00](#)



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## Schedule

### EQUIPMENT:

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

High-voltage power supply IPM consists of a high-voltage power supply unit and a high-voltage connecting cable .

The IPM has a rectangular welded housing filled with oil and fitted with an oil level indicator and a drain hole. The housing has a welded structural frame in which electrical elements are mounted. At the bottom of the housing a high-voltage power transformer is mounted. At the top of the housing a temperature relay, a thyristor key and a potential divider are installed. On the lid of the housing a drying element filled with silicagel and oil, a terminal block covered with a lid with sealed cable glands having the type of protection «e », and an electrical insulating sleeve of high-voltage terminal (main part) of the power supply are installed. The high-voltage terminal consists of two interpenetrating electrical insulating sleeves of the main and cable parts and has the type of protection «d». The place of electrical contact of high-voltage terminal is below the oil level in the power supply housing.

Explosion protection of high-voltage power supply is provided by using of the type of protection «flameproof enclosure d» in accordance with IEC 60079-1:2014, «type of protection e » in accordance with IEC 60079-7:2006, «oil immersion o » in accordance with IEC 60079-6:2007 and its design in accordance with the requirements of IEC 60079-0:2011.

The main technical data of the IPM are the following:

Ex -marking	Ex d e o IIB T6 Gb
Ambien temperature range when in service, ° C	from - 40 to +40
Degree of protection from external effects	IP 66
Rated power, kVA	9.0...25
Rated voltage, kV	15...22
Rated current, A	0.6...1.5

### CONDITIONS OF CERTIFICATION: YES as shown below:

High-voltage power supply models IPM-25/15, IPM -25/22, IPM -15/15, and IPM -9/15 are intended for use together with a high-voltage cable IP 01.80.00.000 and fluoroplastic bushing insulator IPF-25 produced by Electrotechnical company EIP, Ltd.