



# 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 EPS 12.0031X Issue No: 3 Certificate history:  
Issue No. 3 (2019-01-08)  
Status: Current Issue No. 2 (2016-01-21)  
Date of Issue: 2019-01-08 Page 1 of 4 Issue No. 1 (2015-04-14)  
Issue No. 0 (2012-11-12)  
Applicant: PULS GmbH  
Elektrastr. 6  
81925 München  
Germany  
Equipment: QS3.241-A1; QS5.241-A1; QS5.DNET-A1; QS10.121-A1; QS10.241-A1; QS10.301-A1; QS10.481-A1; QS10.DNET-A1; QS20.241-A1; QS20.244-A1; QS20.361-A1; QS20.481-A1  
*Optional accessory:*  
Type of Protection: ec nC  
Marking: Ex ec nC IIC T3 Gc  
Ex ec nC IIC T4 Gc  
T3: QS10.481-A1; QS20.241-A1; QS20.361-A1; QS20.481-A1  
T4: QS3.241-A1; QS5.241-A1; QS5.DNET-A1; QS10.121-A1; QS10.241-A1; QS10.301-A1; QS10.DNET-A1; QS20.244-A1

Approved for issue on behalf of the IECEx  
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:  
(for printed version)

Date:

2019-01-08



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:

Bureau Veritas Consumer Products Services Germany GmbH  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **PULS Investicni s.r.o.**  
Prazska 5639  
43001 Chomutov  
Czech Republic

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:

**IEC 60079-0 : 2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-15 : 2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-7 : 2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

*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:

[DE/EPS/ExTR12.0003/03](#)

#### Quality Assessment Report:

[DE/EPS/QAR12.0010/08](#)



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## Schedule

### EQUIPMENT:

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

QS3.241-A1; QS5.241-A1; QS5.DNET-A1; QS10.121-A1; QS10.241-A1; QS10.301-A1; QS10.481-A1; QS10.DNET-A1; QS20.241-A1; QS20.244-A1; QS20.361-A1; QS20.481-A1

The QS-Series is a range of AC/DC power supplies, which is designed for installation in an enclosure or cabinet and is intended for the general use such as in industrial control, office, communication, and instrumentation equipment.

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

The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.

The equipment was tested for the standard operating conditions only (special operating conditions are allowed in non-hazardous areas only):

- The equipment shall be used in the standard mounting orientation only (input terminal on bottom / output terminal on top)
- The equipment shall be operated at max. 60 °C ambient temperature
- The equipment shall be operated at the nominal a.c. input voltage range only (no d.c. input)



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

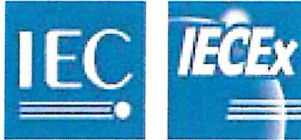
Type of protection "nA" changed to "ec"

Update to current edition of standards

Manufacturer's address changed

**Annex:**

[IECEX EPS 12.0031X - Annex.pdf](#)



Annex to Certificate  
IECEx EPS

IECEx EPS 12.0031X Issue No.: 3



Rating .....	<b>QS3.241-A1</b>	Input: 100-240Vac; 50-60Hz; 1,8-1A Output: 24-28Vdc; 3,4-3A
Nennwerte .....		
	<b>QS5.241-A1</b>	Input: 100-240Vac; 50-60Hz; 1,4-0,65A Output: 24-28Vdc; 5-4,5A
	<b>QS5.DNET-A1</b>	Input: 100-240Vac; 50-60Hz; 1,1-0,5A Output: 24Vdc; 3,8A
	<b>QS10.121-A1</b>	Input: 100-240Vac; 50-60Hz; 2,1-0,9A Output: 12-15Vdc; 15-12A
	<b>QS10.241-A1</b>	Input: 100-240Vac; 50-60Hz; 2,8-1,2A Output: 24-28Vdc; 10-9A
	<b>QS10.301-A1</b>	Input: 100-240Vac; 50-60Hz; 2,8-1,2A Output: 28-32Vdc; 8,6-7,5A
	<b>QS10.481-A1</b>	Input: 100-240Vac; 50-60Hz; 2,8-1,2A Output: 48-56Vdc; 5-4,3A
	<b>QS10.DNET-A1</b>	Input: 100-240Vac; 50-60Hz; 2,3-1,0A Output: 24-24,5Vdc; 8A
	<b>QS20.241-A1</b>	Input: 100-240Vac; 50-60Hz; 5,4-2,4A Output: 24-28Vdc; 20-17,1A
	<b>QS20.244-A1</b>	Input: 200-240Vac; 50-60Hz; 4,8A Output: 24-28Vdc; 20-17,1A
	<b>QS20.361-A1</b>	Input: 100-240Vac; 50-60Hz; 5,4-2,4A Output: 36-42Vdc; 13,3-11,4A
	<b>QS20.481-A1</b>	Input: 100-240Vac; 50-60Hz; 5,4-2,4A Output: 48-55Vdc; 10-8,7A
<u>Temperature class:</u>		
	T3:	QS10.481-A1; QS20.241-A1; QS20.361-A1; QS20.481-A1
	T4:	QS3.241-A1; QS5.241-A1; QS5.DNET-A1; QS10.121-A1; QS10.241-A1; QS10.301-A1; QS10.DNET-A1; QS20.244-A1