(1) # Certificate of Conformity

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Certificate Number:

**EPS 09 ATEX 1 236 X** **Revision 5**

(4) Equipment: Power Supply (built-in):
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

(5) Manufacturer: PULS GmbH

(6) Address: Elektrastr. 6
81925 München
Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 09TH0448.

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

**EN IEC 60079-0:2018** **EN 60079-7:2015**

**EN 60079-15:2010**

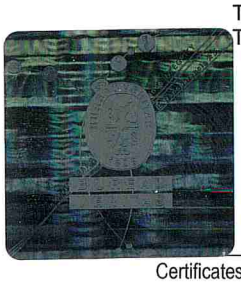
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 3G Ex ec nC IIC T3 Gc
II 3G 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



Certification department of explosion protection

Hamburg, 2020-11-11

H. Schaffer





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(13) # Annexe

(14) **Certificate of Conformity EPS 09 ATEX 1 236 X** **Revision 5**

(15) Description of equipment:

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.

The PCBs are covered by a conformal coating. The coating material complies with IEC / EN 60664-3 (classification: type 2, solid insulation) and/or with UL746E (classification: conformal coating). Material used: Lackwerke Peters GmbH, type PS1306 N-FLZ; minimum thickness must be obtained. Alternate material with equivalent ratings may be used without additional test.

Revision 1: Update from EN 60079-0:2006 and EN 60079-15:2005 to EN 60079-0:2009 and EN 60079-15:2010.
Revision 2: Update from EN 60079-0:2009 to EN 60079-0:2012 + A11:2013.
Revision 3: Minor product modification.
Revision 4: Type of protection "nA" changed to "ec".
Revision 5: Update of ATEX standards to current version. Minor editorial changes, not safety relevant.

Electrical data:

| | |
|---|---|
| QS3.241-A1<br>Input:<br>100-240 Vac \| 1,8-1,0 A \| 50-60 Hz<br>Output:<br>24-28 Vdc \| 3,4-3,0 A (below +60 °C) | QS5.241-A1<br>Input:<br>100-240 Vac \| 1,4-0,65 A \| 50-60 Hz<br>Output:<br>24-28 Vdc \| 5,0-4,5 A (below +60 °C) |
| QS5.DNET-A1<br>Input:<br>100-240 Vac \| 1,1-0,5 A \| 50-60 Hz<br>Output:<br>24 Vdc \| 3,8 A (below +60 °C) | QS10.121-A1<br>Input:<br>100-240 Vac \| 2,1-0,9 A \| 50-60 Hz<br>Output:<br>12-15 Vdc \| 15,0-12,0 A (below +60 °C |
| QS10.241-A1<br>Input:<br>100-240 Vac \| 2,8-1,2 A \| 50-60 Hz<br>Output:<br>24-28 Vdc \| 10,0-9,0 A (below +60 °C) | QS10.301-A1<br>Input:<br>100-240 Vac \| 2,8-1,2 A \| 50-60 Hz<br>Output:<br>28-32 Vdc \| 8,6-7,5 A (below +60 °C) |
| QS10.481-A1<br>Input:<br>100-240 Vac \| 2,8-1,2 A \| 50-60 Hz<br>Output:<br>48-56 Vdc \| 5,0-4,3 A (below +60 °C) | QS10.DNET-A1<br>Input:<br>100-240 Vac \| 2,3-1,0 A \| 50-60 Hz<br>Output:<br>24-24,5 Vdc; 8,0 A (below +60 °C) |





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Electrical data: (continued)

| | |
|---|---|
| QS20.241-A1<br>Input:<br>100-240 Vac \| 5,4-2,4 A \| 50-60 Hz<br>Output:<br>24-28 Vdc \| 20,0-17,1 A (below +60 °C) | QS20.244-A1<br>Input:<br>200-240 Vac \| 4,8A \| 50-60Hz<br>Output:<br>24-28 Vdc \| 20,0-17,1 A (below +60 °C) |
| QS20.361-A1<br>Input:<br>100-240 Vac \| 5,4-2,4 A \| 50-60 Hz<br>Output:<br>36-42 Vdc \| 13,3-11,4 A (below +60 °C) | QS20.481-A1<br>Input:<br>100-240 Vac \| 5,4-2,4 A \| 50-60 Hz<br>Output:<br>48-55 Vdc \| 10,0-8,7 A (below +60 °C) |

(16) Reference number: 09TH0448

(17) Schedule of Limitations:

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

The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 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).

(18) Essential health and safety requirements:

Met by standards.

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

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