IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx EPS 13.0016X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 3	Issue 2 (2016-09-12) Issue 1 (2016-01-21) Issue 0 (2013-07-10)
Date of Issue:	2021-04-29		
Applicant:	**PULS GmbH** Elektrastr. 6 81925 München **Germany**		
Equipment:	**CPS20.241, CPS20.121, CPS20.361, CPS20.481, CPS20.241-D1, CPS20.481-D1, SLA3.100**		
Optional accessory:	(all models optional with suffix "-C1")		
Type of Protection:	**ec / ec nC**		
Marking:	Ex ec nC IIC T3 Gc (all models except SLA3.100) Ex ec IIC T3 Gc (only model SLA3.100)		

Approved for issue on behalf of the IECEx Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-04-29

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

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Certificate issued by:

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

BUREAU VERITAS

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Manufacturer: **PULS GmbH**
Elektrastr. 6
81925 München
Germany

Additional manufacturing locations: **PULS Investicni s.r.o.**
Prazska 5639
43001 Chomutov
Czech Republic

PULS Electronics (Suzhou C) Co., Ltd
No. 1 Rui-en Lane Xingpu Road
Suzhou Industrial Park, 21512 Suzhou City
Jiang Su Province
China

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 equipment 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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

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

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

This Certificate **does not** indicate compliance with 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/ExTR13.0011/03

Quality Assessment Report:

DE/EPS/QAR12.0010/14

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

CPS20.481 **Input:** AC 120-240 V | 5.3-2.7 A | 50-60 Hz **Output:** DC 48-56 V | 12-10.3 A (below +45 °C) DC 48-56 V | 10-8.6 A (+60 °C) DC 48-56 V | 7.5-6.5 A (+70 °C) **Input:** AC 100 V | 6.4 A | 50-60 Hz **Output:** DC 48-56V | 10.2-8.8 A (below +45 °C) DC 48-56V | 8.5-7.3 A (at +60 °C) DC 48-56V | 6.4-5.4 A (at +70 °C) Derate linearly between +45 °C and +70 °C	**CPS20.241** **Input:** AC 120-240 V | 5.3-2.7 A | 50-60 Hz **Output:** DC 24-28 V | 24-20.6 A (below +45 °C) DC 24-28 V | 20-17.1 A (at +60 °C) DC 24-28 V | 15-12.8 A (at +70 °C) **Input:** AC 100 V | 6.4 A | 50-60 Hz **Output:** DC 24-28 V | 20.4-17.5 A (below +45 °C) DC 24-28 V | 17.0-14.5 A (at +60 °C) DC 24-28 V | 12.8-10.9 A (at +70 °C) Derate linearly between +45 °C and +70 °C	**CPS20.361** **Input:** AC 120-240 V | 5.3-2.7 A | 50-60 Hz **Output:** DC 36-42 V | 16-13.7 A (below +45 °C) DC 36-42 V | 13.3-11.4 A (at +60 °C) DC 36-42 V | 10-8.6 A (at +70 °C) **Input**: AC 100 V | 6.4 A | 50-60 Hz **Output:** DC 36-42 V | 13.6-11.7 A (below +45 °C) DC 36-42 V | 11.3-9.7 A (at +60 °C) DC 36-42 V | 8.5-7.3 A (at +70 °C) Derate linearly between +45 °C and +70 °C
CPS20.121 **Input:** AC 120-240 V | 4.1-2.2 A | 50-60 Hz **Output:** DC 12-15 V | 30 A (at +60 °C) DC 12-15 V | 22.5 A (at +70 °C) **Input:** AC 100 V | 4.9 A | 50-60 Hz **Output:** DC 12-15 V | 25.5 A (at +60 °C) DC 12-15 V | 19.1 A (at +70 °C) Derate linearly between +60 °C and +70 °C	**CPS20.241-D1** **Input:** DC 110-300 V$^{(\pm 20\%)}$ | 6.2-2.3 A **Output:** DC 24-28 V | 24-20.6 A (below +45 °C) DC 24-28 V | 20-17.1 A (at +60 °C) DC 24-28 V | 15-12.8 A (at +70 °C) Derate linearly between +45 °C and +70 °C	**CPS20.481-D1** **Input:** DC 110-300 V$^{(\pm 20\%)}$ | 6.2-2.3 A **Output:** DC 48-56 V | 12-10.3 A (below +45 °C) DC 48-56 V | 10-8.6 A (+60 °C) DC 48-56 V | 7.5-6.5 A (+70 °C) Derate linearly between +45 °C and +70 °C
SLA3.100 **Input:** AC 100-120 V | 2.0 A | 50-60 Hz AC 220-240 V | 0.9 A | 50-60 Hz **Output:** DC-AS-i 30.6 V | 2.8 A (up to 60 °C)		

SPECIFIC CONDITIONS OF USE: YES as shown below:
- 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 shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

- Output power de-rating conditions according to manufacturer's instructions must be considered for operation at high ambient temperatures (CPS20.241, CPS20.361, CPS20.481, CPS20.241-D1, CPS20.481-D1: de-rating above +45 °C and CPS20.121: de-rating above +60 °C).

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update to current version of standards. Update to current version of ExTR. Change of type of protection from "nA" to "ec". Change of Manufacturers address to "Elektrastr. 6, 81925 München, Germany ". Minor editorial changes.