



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

Certificate No.: IECEx EPS 17.0046X

Issue No: 1

Certificate history:

Status: Current

Issue No. 1 (2019-07-01)

Issue No. 0 (2017-10-24)

Date of Issue: 2019-07-01

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Applicant: PULS GmbH
Elektrastr. 6, 81925 Muenchen
Germany

Equipment: Power supply CP20.241-xx and CP20.481-xx

Optional accessory:

Type of Protection: ec nC

Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2019-07-01

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 GmbH
Elektrastr. 6, 81925 Muenchen
Germany

Additional Manufacturing location(s):

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 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-7 : 2015 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:

[DE/EPS/ExTR17.0048/01](#)

Quality Assessment Report:

[DE/EPS/QAR12.0010/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

CP20.241, CP20.241-S1, CP20.241-S2, CP20.241-V1, CP20.241-R1, CP20.241-R2, CP20.241-R3, CP20.241-R2-72, CP20.241-R2-73, CP20.481, CP20.481-S1, CP20.481-S2

All models optional with suffix -C1 for conformal coated pc-boards

CP20.241, CP20.241-S1, CP20.241-S2, CP20.241-V1:

Input: AC 100 - 240 V; 6,3 - 2,7A; 50 - 60Hz

Output: DC 24 - 28 V; 24 - 20,6 A (below +45 °C); 20 - 17,1 A (at +60 °C); 15 - 13 A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -25 °C to +70 °C

CP20.241-R1, CP20.241-R2, CP20.241-R3, CP20.241-R2-72, CP20.241-R2-73:

Input: AC 100 - 240 V; 6,3 - 2,7 A; 50 - 60 Hz

Output: DC 24 V; 24 A (below +45 °C); 20 A (at +60 °C); 15 A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -40 °C to +70 °C

CP20.481, CP20.481-S1, CP20.481-S2:

Input: AC 100 - 240 V; 6,3 - 2,7 A; 50 - 60 Hz

Output: DC 48 - 56 V; 12 - 10,3 A (below +45 °C); 10 - 8,6 A (at +60 °C); 7,5 - 6,5 A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -25 °C to +70 °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
- Ambient temperature range up to 70 °C; de-rating conditions must be considered
- Output power de-rating conditions for installation in non-standard mounting orientation must be considered
- Input voltage tolerances for use in potentially explosive atmospheres deviate from those for use in ordinary location; refer to the instruction manual.



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- DC input voltage supply is not allowed (only for use in ordinary applications)



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

New models added: CP20.241-S2, CP20.481, CP20.481-S1, CP20.481-S2

Re-tested due to technical changes: CP20.241, CP20.241-S1, CP20.241-V1, CP20.241-R1, CP20.241-R2, CP20.241-R3

All models: input voltage tolerances changed; DC input voltage removed