



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 17.0046X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 3 Issue 2 (2020-03-13)
Date of Issue: 2020-09-21 Issue 1 (2019-07-01)
Applicant: **PULS GmbH** Issue 0 (2017-10-24)
Elektrastr. 6, 81925 Muenchen
Germany
Equipment: **Power Supply (built-in); CP20.241-xx, CP20.481-xx and CP20.245-xx**
Optional accessory: All models optional with suffix -C1 for conformal coated pc-boards
Type of Protection: **ec nC**
Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEX
Certification Body:

Position:

Signature:
(for printed version)

Date:

Holger Schaffer

Certification Manager



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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0046X** Page 2 of 5

Date of issue: 2020-09-21 Issue No: 3

Manufacturer: **PULS GmbH**
Elektrastr. 6, 81925 Muenchen
Germany

Additional manufacturing locations:

PULS Electronics (Suzhou C) Co., Ltd No. 1 Rui-en Lane Xingpu Road Suzhou Industrial Park, 21512 Suzhou City Jiang Su Province China	PULS Investicni s.r.o. Prazska 5639 43001 Chomutov Czech Republic
---	---

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 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 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/ExTR17.0048/03](#)

Quality Assessment Report:

[DE/EPS/QAR12.0010/12](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0046X**

Page 3 of 5

Date of issue: 2020-09-21

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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

Input:

AC 100 - 240 V | 6,3 - 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 - 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:

Input:

AC 100 - 240 V | 6,3 - 2,7 A | 50 - 60 Hz

Output:

DC 24 V | 22 A (below +45 °C)

DC 24 V | 20 A (at +60 °C)

DC 24 V | 15 A (at +70 °C)

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

Ambient temperature range: -40 °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.
- DC input voltage supply is not allowed (only for use in ordinary applications).



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 17.0046X**

Page 4 of 5

Date of issue: 2020-09-21

Issue No: 3

Equipment (continued):

CP20.241-R2-72, CP20.241-R2-73, CP20.245-R2:

Input:

AC 100 - 240 V | 6,3 - 2,7 A | 50 - 60 Hz

Output:

DC 24 V | 22 A (below +45 °C)

DC 24 V | 20 A (at +60 °C)

DC 24 V | 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)

DC 48 - 56 V | 10 - 8,6 A (at +60 °C)

DC 48 - 56 V | 7,5 - 6,5 A (at +70 °C)

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

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

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



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 17.0046X**

Page 5 of 5

Date of issue: 2020-09-21

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update to current version of standards. Update of TRF (ExTR) to current version of standards used. Revision of manufacturer's documents. New model added: CP20.245-R2 (identical to model CP20.241-R2-73 of Revision 2 without conformal coating).