

# 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](http://www.iecex.com)

Certificate No.: **IECEx EPS 15.0079X** Page 1 of 6 Certificate history:  
Status: **Current** Issue No: 2 Issue 1 (2019-03-25)  
Date of Issue: 2020-11-11 Issue 0 (2015-12-08)  
Applicant: **PULS GmbH**  
Elektrastr. 6  
81925 München  
Germany  
Equipment: **Power supply series (built-in): CP10.121, CP10.241, CP10.241-S1, CP10.242, CP10.241-S2, CP10.361, CP10.481, CP10.241-R1, CP10.241-R2, CP10.241-R3**  
Optional accessory: (All models optional with suffix -C1 for conformal coated pc-board)  
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**

2020-11-11

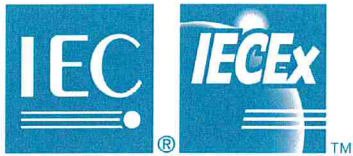
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Businesspark A96  
86842 Türkheim  
Germany





# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 15.0079X**

Page 2 of 6

Date of issue: 2020-11-11

Issue No: 2

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

Additional  
manufacturing  
locations:

**PULS ELECTRONICS (SUZHOU) CO LTD**  
NO 1 RUI EN LANE XINGPU RD, SIP  
SUZHOU  
JIANGSU 215021  
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/ExTR15.0077/02

Quality Assessment Report:

DE/EPS/QAR12.0010/08



# IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0079X**

Page 3 of 6

Date of issue: 2020-11-11

Issue No: 2

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

This CP10 series of power supplies are industrial grade DIN-rail mountable open type switch-mode power supplies in the 240W power class with built-in redundancy. They are designed for single-phase input voltages between AC 100 V and AC 240 V and provide a floating, stabilized and galvanically separated single output voltage.

Optionally, devices are also offered without the built-in redundancy feature.

In addition to the AC input voltage, the power supplies can also be supplied from a DC voltage.

The devices are available with several different connection terminal options such as screw terminals, quick-connect spring-clamp terminals, push-in terminals or plug-connectors.

All devices are designed for installation in an enclosure providing protection against electrical, mechanical and fire hazards and are intended for general use such as industrial control, power distribution and instrumentation equipment.

The equipment is type of protection "ec"; type of protection "nC" was applied for the relays only.

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

- The equipment shall be installed in an enclosure that provides a degree of protection not less than 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 above 45 °C must be considered
- Output power de-rating conditions for installation in non-standard mounting orientation must be considered, see manufacturer's instructions.



# IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0079X**

Page 4 of 6

Date of issue: 2020-11-11

Issue No: 2

## Equipment (continued):

### CP10.121

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 2,6-1,1 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 2,4-1,7 A

#### Output:

DC 12-15 V | 19,2-15,4 A (below +45 °C)

DC 12-15 V | 16,0-12,8 A (at +60 °C)

DC 12-15 V | 12,0-9,6 A (at +70 °C)

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### CP10.241

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

#### Output:

DC 24-28 V | 12-10,3 A (below +45 °C)

DC 24-28 V | 10-8,6 A (at +60 °C)

DC 24-28 V | 7,5-6,5 A (at +70 °C)

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### CP10.241-S1

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

#### Output:

DC 24-28 V | 12-10,3 A (below +45 °C)

DC 24-28 V | 10-8,6 A (at +60 °C)

DC 24-28 V | 7,5-6,5 A (at +70 °C)

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### CP10.241-S2

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

#### Output:

DC 24-28 V | 12-10,3 A (below +45 °C)

DC 24-28 V | 10-8,6 A (at +60 °C)

DC 24-28 V | 7,5-6,5 A (at +70 °C)

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### CP10.242

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-300 V<sup>(±20%)</sup> | 3,0-1,1 A

#### Output:

DC 24-28 V | 12-10,3 A (below +45 °C)

DC 24-28 V | 10-8,6 A (at +60 °C)

DC 24-28 V | 7,5-6,5 A (at +70 °C)

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### CP10.241-R1

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

#### Output:

DC 24 V | 12 A (below +45 °C)

DC 24 V | 10 A (at +60 °C)

DC 24 V | 7,5 A (at +70 °C)

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### CP10.241-R2

#### Input:

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

#### Output:

DC 24 V | 12 A (below +45 °C)





# IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0079X**

Page 5 of 6

Date of issue: 2020-11-11

Issue No: 2

DC 24 V | 10 A (at +60 °C)  
DC 24 V | 7,5 A (at +70 °C)

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#### **CP10.241-R3**

##### **Input:**

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

##### **Output:**

DC 24 V | 12 A (below +45 °C)

DC 24 V | 10 A (at +60 °C)

DC 24 V | 7,5 A (at +70 °C)

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#### **CP10.361**

##### **Input:**

AC 100-240 V<sup>(-15%/+10%)</sup> | 3,3-1,4 A | 50-60 Hz

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

##### **Output:**

DC 36-42 V | 8,0-6,9 A (below +45 °C)

DC 36-42 V | 6,7-5,7 A (at +60 °C)

DC 36-42 V | 5,0-4,3 A (at +70 °C)

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#### **CP10.481**

(The maximum allowed output current varies depending on the supply voltage tolerances)

##### **Input:**

AC 100-240 V<sup>(±10%)</sup> | 3,3-1,4 A | 50-60 Hz

##### **Output:**

DC 48-56 V | 6,0-5,2 A (below +45 °C)

DC 48-56 V | 5,4-4,6 A (at +60 °C)

DC 48-56 V | 4,0-3,4 A (at +70 °C)

##### **Input:**

DC 110-150 V<sup>(-15%/+20%)</sup> | 3,0-2,2 A

##### **Output:**

DC 48-56 V | 6,0-5,2 A (below +45 °C)

DC 48-56 V | 5,4-4,6 A (at +60 °C)

DC 48-56 V | 4,0-3,4 A (at +70 °C)

##### **Input:**

DC 110-150 V<sup>(±20%)</sup> | 3,0-2,2 A

##### **Output:**

DC 48-56 V | 6,0-5,2 A (below +45 °C)

DC 48-56 V | 5,0-4,3 A (at +60 °C)

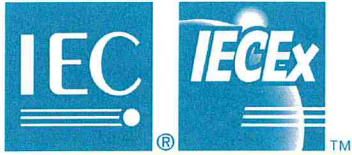
DC 48-56 V | 3,8-3,2 A (at +70 °C)

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All models:

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

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



# IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0079X**

Page 6 of 6

Date of issue: 2020-11-11

Issue No: 2

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

Update of ATEX standard to current version. Minor editorial changes, not safety relevant.