



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 15.0079X	Page 1 of 6	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2020-11-11)
Date of Issue:	2024-07-29		Issue 1 (2019-03-25)
Applicant:	PULS GmbH Elektrastr. 6 81925 München Germany		Issue 0 (2015-12-08)
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, CP10.241-86		
Optional accessory:	(All models optional with suffix -C1 for conformal coated pc-board; or -C2 for partial coating)		
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:
(for printed version)

Ulrich Feike

Head of Certification

2024-07-29



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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





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

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/ExTR15.0077/03](#)

Quality Assessment Report:

[DE/EPS/QAR12.0010/22](#)



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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 240 W 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 IP54 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.



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Equipment (continued):

CP10.121

Input:

AC 100-240 V(-15%/+10%) | 2.6-1.1 A | 50-60 Hz

DC 110-150 V(±20%) | 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)

CP10.241

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V(±20%) | 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)

CP10.241-S1

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V(±20%) | 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)

CP10.241-S2

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V(±20%) | 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)

CP10.242

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-300 V(±20%) | 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)

CP10.241-R1

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V(±20%) | 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)

CP10.241-R2

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V(±20%) | 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-R3

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V($\pm 20\%$) | 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)

CP10.361

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V($\pm 20\%$) | 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)

CP10.481

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

Input: AC 100-240 V($\pm 10\%$) | 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(-15%/+20%) | 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($\pm 20\%$) | 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)

CP10.241-86

Input:

AC 100-240 V(-15%/+10%) | 3.3-1.4 A | 50-60 Hz

DC 110-150 V($\pm 20\%$) | 3.0-2.2 A

Output:

DC 24-26 V | 12-11.1 A (below +45 °C)

DC 24-26 V | 10-9.3 A (at +60 °C)

DC 24-26 V | 7.5-7.0 A (at +70 °C)

All models:

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

Ambient temperature range:

-25 °C to +70 °C

-40 °C to +70 °C (CP10.241-86 only)



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

New model CP10.241-86 added