

Certificate of Conformity

(1)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 2014/34/EU

(3) Certificate Number:

EPS 15 ATEX 1 101 X

Revision 1

(4) Equipment: Power supply: 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
(All models optional with suffix –C1 for conformal coated pc-board)

(5) Manufacturer: PULS GmbH

(6) Address: Elektrastr. 6, 81925 München, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 15TH0321.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013

EN 60079-7:2015 + A1:2018

EN 60079-15:2010

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 3G Ex ec nC IIC T4 Gc

Certification department of explosion protection

Nuernberg, 2019-03-25

H. Schaffer

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Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 15 ATEX 1 101 X, Revision 1.



(13)

Annexe

(14) **Certificate of Conformity EPS 15 ATEX 1 101 X**

Revision 1

(15) Description of equipment:

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 100V and AC 240V 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 in industrial control, power distribution and instrumentation equipment.

Electrical data:

CP10.121

Input:

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

DC 110-150V (±20%), 2,4-1,7A

Output:

DC 12-15V, 19,2-15,4A (below +45°C)

16,0-12,8A (at +60°C)

12,0-9,6A (at +70°C)

CP10.241

Input:

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

DC 110-150V (±20%), 3,0-2,2A

Output:

DC 24-28V, 12-10,3A (below +45°C)

10-8,6A (at +60°C)

7,5-6,5A (at +70°C)

CP10.241-S1

Input:

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

DC 110-150V (±20%), 3,0-2,2A

Output:

DC 24-28V, 12-10,3A (below +45°C)

10-8,6A (at +60°C)

7,5-6,5A (at +70°C)

CP10.241-S2

Input:

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

DC 110-150V (±20%), 3,0-2,2A

Output:

DC 24-28V, 12-10,3A (below +45°C)

10-8,6A (at +60°C)

7,5-6,5A (at +70°C)

Electrical data (continued):

CP10.242

Input:

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

DC 110-300V ($\pm 20\%$), 3,0-1,1A

Output:

DC 24-28V, 12-10,3A (below +45°C)

10-8,6A (at +60°C)

7,5-6,5A (at +70°C)

CP10.241-R1

Input:

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

DC 110-150V ($\pm 20\%$), 3,0-2,2A

Output:

DC 24V, 12A (below +45°C)

10A (at +60°C)

7,5A (at +70°C)

CP10.241-R2

Input:

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

DC 110-150V ($\pm 20\%$), 3,0-2,2A

Output:

DC 24V, 12A (below +45°C)

10A (at +60°C)

7,5A (at +70°C)

CP10.241-R3

Input:

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

DC 110-150V ($\pm 20\%$), 3,0-2,2A

Output:

DC 24V, 12A (below +45°C)

10A (at +60°C)

7,5A (at +70°C)

CP10.361

Input:

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

DC 110-150V ($\pm 20\%$), 3,0-2,2A

Output:

DC 36-42V, 8,0-6,9A (below +45°C)

6,7-5,7A (at +60°C)

5,0-4,3A (at +70°C)

Electrical data (continued):

CP10.481

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

Input: AC 100-240V ($\pm 10\%$) 3,3-1,4A, 50-60Hz:

Output:

DC 48-56V, 6,0-5,2A (below +45°C)
5,4-4,6A (at +60°C)
4,0-3,4A (at +70°C)

Input: DC 110-150V ($-15\%/+20\%$), 3,0-2,2A

Output:

DC 48-56V, 6,0-5,2A (below +45°C)
5,4-4,6A (at +60°C)
4,0-3,4A (at +70°C)

Input: DC 110-150V ($\pm 20\%$), 3,0-2,2A

Output:

DC 48-56V, 6,0-5,2A (below +45°C)
5,0-4,3A (at +60°C)
3,8-3,2A (at +70°C)

All models:

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

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

(16) Reference number: 15TH0321

(17) Schedule of Limitations:

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with EN 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 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.

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Nuernberg, 2019-03-25

