

(1) **Certificate of Conformity**

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

(3) **Certificate Number:**

EPS 17 ATEX 1 089 X

Revision 3

(4) **Equipment:** Power supply (built-in):
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, CP20.245-R2

(5) **Manufacturer:** PULS GmbH

(6) **Address:** Elektrastr. 6
81925 Muenchen
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 17TH0214.

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

EN IEC 60079-0:2018


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

Hamburg, 2020-09-21

H. Schaffer



(13) **Annexe**

(14) **Certificate of Conformity EPS 17 ATEX 1 089 X**

Revision 3

(15) Description of equipment:

The CP20 series of power supplies are industrial grade DIN-rail mountable switch-mode power supplies in the 480W power class. They are designed for single-phase input voltages between AC 100V and AC 240V and provide a floating, stabilized and galvanically separated SELV/PELV output voltage.

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

Revision 2: Re-testing due to technical changes on model CP20.241-R2-72 and CP20.241-R2-73
Output current was reduced to 22 A at 45 °C due to design changes (see ratings below).

Revision 3: Update of 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).

Electrical data:

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

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.

(16) Reference number: 17TH0214

(17) Schedule of Limitations:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of 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 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).

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Hamburg, 2020-09-21



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