



(1)

Certificate of Conformity

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU
(3) Certificate Number

EPS 25 ATEX 1 144 U

Revision 0

(4) Component: Power Supply, type SP960.bbc-dd-eee
(5) Manufacturer: PULS GmbH
(6) Address: Elektrastr. 6
81925 Muenchen
Germany

(7) This component and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.
(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this component 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 25TH0554_00.
(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

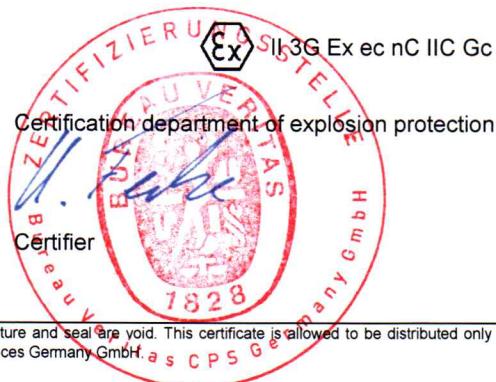
EN 60079-7:2015,

EN IEC 60079-7:2015/A1:2018

EN 60079-15:2010

EN IEC 60079-15:2019

(10) The sign "U" placed behind the certificate number indicates that this certificate shall not be confounded with certificates issued for equipment or protective systems. This certificate is valid for a component without an autonomous function in sense of article 2 (3) and does not authorize for the CE-marking to be applied according to article 13 (3) of the Directive. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.
(11) This Certificate of Conformity relates only to the design and the construction of the specified component in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this component and its placing on the market. Those requirements are not covered by this certificate.
(12) The marking of the component shall include the following:



Tuerkheim, 2025-09-29

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.



(13)

Annex

(14) **Certificate of Conformity EPS 25 ATEX 1 144 U**

Revision 0

(15) Description of component:

Component level power supply for built-in use.

SP960.bbc-dd-eee

bb = 24 or 48

c = 1 or 3

dd = S, SB, SC, SR, SRC, or blank (and optional suffix: 70 - 89)

eee = IOL, DISPLAY or blank

Electrical data:

SP960.24c-dd-eee:

AC 100 V Mains

Input

AC 100 V \pm 10%, 13.2 A, 50-60 Hz

Output

DC 24 – 28 V

48.0-41.1 A cont. below +40 °C

40.0-34.3 A cont. at +55 °C

30.0-25.7 A cont. at +70 °C

60.0-51.4 A up to 5 s

Derate linearly between +40 °C and +70 °C

AC 120-240 V Mains

Input

AC 120-240 V \pm 15%/ \pm 10%, 10.8-5.3 A, 50-60 Hz

Output

DC 24 – 28V

48.0-41.1 A cont. below +45 °C

40.0-34.3 A cont. at +60 °C

30.0-25.7 A cont. at +70 °C

60.0-51.4 A up to 5 s

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

Ambient temp. range: -25 °C to +70 °C

SP960.48c-dd-eee:

AC 100V Mains

Input

AC 100 V \pm 10%, 13.2 A, 50-60 Hz

Output

DC 48 – 56 V

22.0-20.6 A cont. below +40 °C

20.0-17.1 A cont. at +55 °C

15.0-12.9 A cont. at +70 °C

30.0-25.7 A up to 5 s

Derate linearly between +40 °C and +70 °C



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Revision 0

AC 120-240V Mains

Input

AC 120-240 V^{-15%/+10%}, 10.8-5.3 A, 50-60 Hz

Output

DC 48 – 56 V

22.0-20.6 A cont. below +45 °C

20.0-17.1 A cont. at +60 °C

15.0-12.9 A cont. at +70 °C

30.0-25.7 A up to 5 s

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

Ambient temp. range: -25 °C to +70 °C

(16) Reference number: 25TH0554_00

(17) Schedule of limitations:

The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.

The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN 60079-0.

For 48 V models (SP960.48c-dd-eee) there are different output power ratings for regular industrial environments (24 A) and for areas with explosive gas atmospheres (22 A). Reduced output power ratings apply for installation in applications with explosive gas atmospheres for compliance with T4 temperature limitation.

The equipment fulfils the requirements for temperature class T4 when installed and operated according to manufacturer's instructions. The requirements for maximum surface temperature shall be re-evaluated in the end-product. The verification may be done by re-measuring the temperature on component V111 (body); the temperature should be below the highest measured temperature during the type tests (129.5 °C).

(18) Essential health and safety requirements:

Met by compliance with standards.



Certification department of explosion protection

Tuerkheim, 2025-09-29