

(1) **Certificate of Conformity**

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

(3) Certificate Number:

EPS 13 ATEX 1 555 X

Revision 2

(4) Equipment: CPS20.241, CPS20.121, CPS20.361, CPS20.481, CPS20.241-D1, CPS20.481-D1, SLA3.100 (all models optional with suffix "-C1")

(5) Manufacturer: PULS GmbH

(6) Address: Arabellastr. 15, 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 13TH0193.

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


EN 60079-0:2012 + A11:2013


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 nA IIC T3 Gc

 II 3G Ex nA nC IIC T3 Gc

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Nürnberg, 2016-09-08



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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 13 ATEX 1 555 X, Revision 2.

(13)

Annexe 1

(14) **Certificate of Conformity EPS 13 ATEX 1 555 X**

Revision 2

(15) Description of equipment:

The CPS20.xxx power supplies are intended for universal use, the SLA3.100 is specially made to supply the AS-Interface field bus system. The output of the SLA3.100 power supply is inductive and is not suitable for other applications.

Revision 1: Minor product modification and additional standard EN 60079-0/A11:2013 added

Revision 2: Extension of ambient temperature range from 60 °C to 70 °C. Change of input voltage rating.

Model CPS20...: Ex nA nC IIC T3 Gc

Model SLA3.100: Ex nA IIC T3 Gc

Electrical data:

See Annexe 2

(16) Reference number: 13TH0193

(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 60079-15. The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

Output power de-rating conditions according to manufacturer's instructions must be considered for operation at high ambient temperatures (CPS20.241, CPS20.361, CPS20.481, CPS20.241-D1, CPS20.481-D1: de-rating above 45°C and CPS20.121: de-rating above 60°C).

(18) Essential health and safety requirements:

Met by standards.

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Annexe 2

Certificate of Conformity EPS 13 ATEX 1 555 X

Revision 2

CPS20.121

AC 120-240V:

IN: AC 120-240V, 4.1-2.2A, 50-60Hz

OUT: DC 12-15V, 30A (at +60°C)
DC 12-15V, 22.5A (at +70°C)

AC 100V:

IN: AC 100V, 4.9A, 50-60Hz

OUT: DC 12-15V, 25.5A (at +60°C)
DC 12-15V, 19.1A (at +70°C)

Derate linearly between +60°C and +70°C

CPS20.241

AC 120-240V:

IN: AC 120-240V, 5.3-2.7A, 50-60Hz

OUT: DC 24-28V, 24-20.6A (below +45°C)
DC 24-28V, 20-17.1A (at +60°C)
DC 24-28V, 15-12.8A (at +70°C)

AC 100V:

IN: AC 100V, 6.4A, 50-60Hz

OUT: DC 24-28V, 20.4-17.5A (below +45°C)
DC 24-28V, 17.0-14.5A (at +60°C)
DC 24-28V, 12.8-10.9A (at +70°C)

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

CPS20.361

AC 120-240V:

IN: AC 120-240V, 5.3-2.7A, 50-60Hz

OUT: DC 36-42V, 16-13.7A (below +45°C)
DC 36-42V, 13.3-11.4A (at +60°C)
DC 36-42V, 10-8.6A (at +70°C)

AC 100V:

IN: AC 100V, 6.4A, 50-60Hz

OUT: DC 36-42V, 13.6-11.7A (below +45°C)
DC 36-42V, 11.3-9.7A (at +60°C)
DC 36-42V, 8.5-7.3A (at +70°C)

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

CPS20.481

AC 120-240V:

IN: AC 120-240V, 5.3-2.7A, 50-60Hz

OUT: DC 48-56V, 12-10.3A (below +45°C)
DC 48-56V, 10-8.6A (+60°C)
DC 48-56V, 7.5-6.5A (+70°C)

AC 100V:

IN: AC 100V, 6.4A, 50-60Hz

OUT: DC 48-56V, 10.2-8.8A (below +45°C)
DC 48-56V, 8.5-7.3A (at +60°C)
DC 48-56V, 6.4-5.4A (at +70°C)

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

CPS20.241-D1

Input:

DC 110-300V ($\pm 20\%$), 6.2-2.3A

Output:

DC 24-28V, 24-20.6A (below +45°C)
DC 24-28V, 20-17.1A (at +60°C)
DC 24-28V, 15-12.8A (at +70°C)

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

CPS20.481-D1

Input:

DC 110-300V ($\pm 20\%$), 6.2-2.3A

Output:

DC 48-56V, 12-10.3A (below +45°C)
DC 48-56V, 10-8.6A (+60°C)
DC 48-56V, 7.5-6.5A (+70°C)

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

SLA3.100

Input:

AC 100-120V/220-240V, 2.0A/0.9A, 50-60Hz

Output:

DC-AS-i 30.6V, 2.8A (up to 60°C)

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