



Revision 6

Certificate of Conformity

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

(1)

EPS 08 ATEX 1 142 X

- (4) Equipment: Power Supply (built-in): CD5.241, CD5.241-S1, CD5.241-L1, CD5.121, CD5.242, CD5.243, CD5.051 (optional with suffix "-C1" or "-C2")
- (5) Manufacturer: Puls GmbH
- (6) Address: Elektrastr. 6 81925 München Germany
- (7) This equipment 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 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 08TH0347.
- (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 IEC 60079-15:2019

- 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 annex 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 of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



Tuerkheim, 2023-12-20

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.

Bureau Veritas Consumer Products Services Germany GmbH www.bureauveritas.de/cps

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ZERT-0213-DEU-ZE-EX-V01/TEMP-0052-DEU-ZE-V02

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(13)

(14) Certificate of Conformity EPS 08 ATEX 1 142 X

(15) <u>Description of equipment</u>:

The product is a DC/DC power supply intended for built-in use. The DC/DC converter is supplied with 12 / 24 / 48 Vdc and provides an isolated output with 24 Vdc.

The equipment is type of protection "ec"; type of protection "nC" was applied for the relays only.

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.

Optional suffix "-C1" stands for coating of the printed circuit board; no safety relevance.

Optional suffix "-C2" stands for partial coating of the printed circuit board; no safety relevance.

CD5.241-S1: This model is identical to CD5.241 but is provided with quick-connect spring clamp terminals.

CD5.241-L1: This Model is identical to CD5.241 but is provided with limited power for special purposes (NEC Class 2 power limitation)

Electrical data:

$\label{eq:cds} \begin{array}{c} \underline{\text{CD5.121:}} \\ \text{Input:} \\ \text{DC } 24 \ \text{V}^{(\text{-}25\%/\text{ +}35\%)} \ \ 5.6 \ \text{A} \\ \text{Output:} \\ \text{DC } 12\text{-}15 \ \text{V} \ \ 9.6\text{-}7.7 \ \text{A} \ (\text{below } \text{+}45 \ ^{\circ}\text{C}) \\ \text{DC } 12\text{-}15 \ \text{V} \ \ 8.0\text{-}6.4 \ \text{A} \ (\text{at } \text{+}60 \ ^{\circ}\text{C}) \\ \text{DC } 12\text{-}15 \ \text{V} \ \ 8.0\text{-}6.4 \ \text{A} \ (\text{at } \text{+}70 \ ^{\circ}\text{C}) \\ \text{Dc } 12\text{-}15 \ \text{V} \ \ 6.0\text{-}4.8 \ \text{A} \ (\text{at } \text{+}70 \ ^{\circ}\text{C}) \\ \text{Derate linearly between } \text{+}45 \ ^{\circ}\text{C} \ \text{and } \text{+}70 \ ^{\circ}\text{C} \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
<u>CD5.241-L1:</u> Input: DC 24 V(-40%/ +35%) 5.5 A Output: DC 24 V 3.8 A (max. +70 °C)	CD5.241-S1: Input: DC 24 V ^(-25%/+35%) 7.0 A Output: DC 24-28 V 6.0-5.1 A (below +45 °C) DC 24-28 V 5.0-4.3 A (at +60 °C) DC 24-28 V 3.8-3.2 A (at +70 °C) Derate linearly between + 45 °C and +70 °C
$\frac{\text{CD5.242:}}{\text{Input:}} \\ \text{DC 48 V}^{(\pm 25\%)} 3.5 \text{ A} \\ \text{Output:} \\ \text{DC 24-28 V} 6.0-5.1 \text{ A (below +45 °C)} \\ \text{DC 24-28 V} 5.0-4.3 \text{ A (at +60 °C)} \\ \text{DC 24-28 V} 3.8-3.2 \text{ A (at +70 °C)} \\ \text{Derate linearly between +45 °C and +70 °C} \\ \end{array}$	$\begin{array}{c} \underline{\text{CD5.243:}} \\ \text{Input:} \\ DC \ 12 \ V^{(-10\% \ / \ +35\%)}, \ 12 \ A \\ \\ \text{Output:} \\ DC \ 24-28 \ V \ \ 4.8-4.1 \ A \ (below \ +45 \ ^{\circ}\text{C}) \\ \\ DC \ 24-28 \ V \ \ 4.0-3.4 \ A \ (at \ +60 \ ^{\circ}\text{C}) \\ \\ DC \ 24-28 \ V \ \ 3.0-2.6 \ A \ (at \ +70 \ ^{\circ}\text{C}) \\ \\ \\ \text{Input:} \\ \\ DC \ 12 \ V^{(-30\%)} \ \ 12 \ A \\ \\ \\ \text{Output:} \\ \\ DC \ 24-28 \ V \ \ 4.0-3.4 \ A \ (below \ +45 \ ^{\circ}\text{C}) \\ \\ DC \ 24-28 \ V \ \ 4.0-3.4 \ A \ (below \ +45 \ ^{\circ}\text{C}) \\ \\ DC \ 24-28 \ V \ \ 3.2-2.7 \ A \ (at \ +60 \ ^{\circ}\text{C}) \\ \\ \\ DC \ 24-28 \ V \ \ 2.4-2.1 \ A \ (at \ +70 \ ^{\circ}\text{C}) \\ \\ \\ \\ \\ Derate \ Inearly \ between \ +45 \ ^{\circ}\ C \ and \ +70 \ ^{\circ}\ C \end{array}$





Annex

Revision 6

2/4



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Certificate number EPS 08 ATEX 1 142 X, Revision 6

Certificate of Conformity EPS 08 ATEX 1 142 X

Electrical data (continued):

<u>CD5.051:</u>	
Input:	
DC 24V, 3,2A	
Output:	
DC 5-5,5V, 12A (below +45°C)	
DC 5-5,5V, 10A (at +60°C)	
DC 5-5,5V, 7,5A (at +70°C)	
Derate linearly between +60°C and +70°C	

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Mounting orientations:

	Standard	90° clockwise (cw) rotated	90° counter clockwise (ccw) rotated	Upside down	Table top
		DC/DC Converter	DCDC		minim
CD5.121	96W at +60°C	86.4W at +60°C	86.4W at +60°C	86.4W at +60°C	86.4W at +60°C
CD5.241 CD5.241-S1	120W at +60°C	108W at +60°C	108W at +60°C	108W at +60°C	108W at +60°C
CD5.241-L1	91.2W at +60°C	91.2W at +60°C	91.2W at +60°C	91.2W at +60°C	91.2W at +60°C
CD5.242	120W at +60°C	108W at +60°C	108W at +60°C	108W at +60°C	108W at +60°C
CD5.242	96W at +60°C	76.8W at +60°C	76.8W at +60°C	76.4W at +60°C	76.8W at +60°C
CD5.051	55W at + 60°C	49.5W at + 60°C	49.5W at + 60°C	49.5W at + 60°C	49.5W at + 60°C

(16) Reference number: 08TH0347

(17) Special conditions for safe use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 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.

- Reduced output current conditions must be considered for high ambient temperatures and non-standard mounting orientations.





Revision 6





Certificate of Conformity EPS 08 ATEX 1 142 X

Revision 6

(18) Essential health and safety requirements:

Met by compliance with standards.



Tuerkheim, 2023-12-20