



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx EPS 15.0079X	Issue No: 0	Certificate history: Issue No. 0 (2015-12-08)
Status:	Current	Page 1 of 3	
Date of Issue:	2015-12-08		
Applicant:	PULS GmbH Arabellastraße 15 81925 München Germany		
Electrical Apparatus:	CP10 power supply series		
Optional accessory:			
Type of Protection:	Ex nA nC IIC T4 Gc		
Marking:	Ex nA nC IIC T4 Gc (see Attachment for ratings)		

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Certification Manager

Signature:
(for printed version)

Date:

2015-12-08



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: PULS GmbH
Arabellastraße 15
81925 München
Germany

Additional Manufacturing
location(s):

PULS Investicni s.r.o.
Pražská 5639
43001 Chomutov
Czech Republic

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/EPS/ExTR15.0077/00

Quality Assessment Report:

DE/EPS/QAR12.0010/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

CP10.121, CP10.241, CP10.241-S1, CP10.242, CP10.361, CP10.481

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

CONDITIONS OF CERTIFICATION: YES as shown below:

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-15.

- Ambient temperature range -25°C to +70°C. De-rating conditions for ambient temperatures above 45°C and for non-standard mounting orientations must be considered.

Annex:

[IECEX EPS 15.0079X - Annex.pdf](#)



Rating

CP10.121

Input:

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

DC 110-150V ($\pm 20\%$), 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)

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

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

CP10.241

Input:

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

DC 110-150V ($\pm 20\%$), 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)

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

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

CP10.241-S1

Input:

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

DC 110-150V ($\pm 20\%$), 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)

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

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

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)

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

Ambient temperature range: -25°C to +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:



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DC 36-42V, 8,0-6,9A (below +45°C)
6,7-5,7A (at +60°C)
5,0-4,3A (at +70°C)
Derate linearly between +45°C and +70°C
Ambient temperature range: -25°C to +70°C

CP10.481

(The maximum 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)

Derate linearly between +45°C and +70°C
Ambient temperature range: -25°C to +70°C



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Mounting orientations:

Max. output power	Standard	90° clockwise (cw) rotated	90° counter clockwise (ccw) rotated	Upside down	Table top
CP10.121	192W at +60°C	108W at +60°C	108W at +60°C	132W at +60°C	108W at +60°C
CP10.241 CP10.242 CP10.241-S1	240W at +60°C	144W at +60°C	144W at +60°C	168W at +60°C	144W at +60°C
CP10.361	240W at +60°C	144W at +60°C	144W at +60°C	168W at +60°C	144W at +60°C
CP10.481	260W at +60°C	144W at +60°C	144W at +60°C	168W at +60°C	144W at +60°C