



CERTIFICATE NUMBER	25-0260421-PDA
EFFECTIVE DATE	30-Apr-2025
EXPIRY DATE	29-Apr-2030
ABS TECHNICAL OFFICE	Hamburg Engineering Department

# CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**PULS GMBH**

located at

**ELEKTRASTR. 6, , D-81925 MUENCHEN, Germany**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product:** Power Supply Unit  
**Model:** CP20.241-R2-72 CP20.241-R2-73, CP20.245-R2  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29/Apr/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping	
Efstratios Maliatsos, Engineer/Consultant	

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Web: www.pulspower.com

**Tier: 2 - PDA Issued**

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**Product:** Power Supply Unit  
**Model:** CP20.241-R2-72 CP20.241-R2-73, CP20.245-R2  
**Endorsements:**

**Intended Service:**  
Control power supply, UPS/ battery, redundancy/ decoupling modules for installation in consoles and cabinets.

**Description:**  
DIN-rail mountable single-phase-input power supply incorporated in a IP20 housing. Floating, stabilized and galvanically separated SELV/PELV output voltage. Output 24V with 20A nominal output current.

**Rating:**  
AC Input voltage : AC 100-240V;  
Output voltage: DC 24V;  
Operating Temperature: -40°C to +70°C;  
Degree of protection: IP 20;  
Certified Safe Equipment (only CP20.241-R2-72, CP20.241-R2-73);  
II 3G Ex ec nC IIC T4 Gc (EPS 17 ATEX 1 089X, IECEx 17TH0214-60079\_1).

**Service Restriction:**

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. A suitable enclosure must be provided for the end product. Specially for certified safe types the enclosure should have a minimum protection of IP54 and fulfil the requirements of the EN 60079-0.
3. Ex certification is not covered by this certificate. Installation in hazardous areas is to be in accordance with any special conditions for safe use detailed in the applicable Ex certificate issued by a notified body.

**Comments:**  
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**  
Drawing No. 2Report\_19MR1-0086-VI1, Visual Inspection Report, Puls Gmbh, Issued on 2019-12-10  
Drawing No. AP-426\_251\_00-ZG\_UI3, DWG- Main Board  
Drawing No. AP-426\_280\_99-ZG\_UI9, DWG- Terminal Board  
Drawing No. AP-426\_350\_00-ZG\_UI3, DWG- Terminal Board  
Drawing No. AP-426\_361\_00-ZG\_UI2, DWG- Main Board  
Drawing No. AP-426\_363\_00-ZG\_UI2, DWG- Main Board  
Drawing No. AP-426\_471\_00-ZG\_UI3, DWG- Power Board and CAP Module  
Drawing No. AP-426\_473\_00-ZG\_UI3, DWG- Power Board and CAP Module  
Drawing No. CP20\_241-R2-72 Rev1\_12, Data Sheet- CP20.241-R2-72\_24V, 20A, SINGLE PHASE INPUT\_ Rev1\_12  
Drawing No. CP20\_241-R2-73 Rev1\_9, Data Sheet- CP20.241-R2-73\_24V, 20A, SINGLE PHASE INPUT\_ Rev1\_9  
Drawing No. CP20\_245-R2 Rev1\_0, Data Sheet- CP20.245-R2\_24V, 20A, SINGLE PHASE INPUT\_ Rev1\_0  
Drawing No. IM-CP20\_241-R2-72--2019-11-06, Installation Manual- CP20.241-R2-72  
Drawing No. IM-CP20\_241-R2-73--2019-11-06, Installation Manual- CP20.241-R2-73  
Drawing No. IM-CP20\_245-R2--2019-12-02, Installation Manual- CP20.245-R2  
Drawing No. LP009 Accreditation Certificate, LP009 Accreditation Certificate  
Drawing No. LP009 Annex\_2018-04-19, LP009 Annex to the Accreditation Certificate  
Drawing No. Marine Manufacturers Documents\_2020-01-28, Marine Manufacturers Documents  
Drawing No. PU-426\_015\_77-xxB, Installation Manual- CP20.241-R1-77  
Drawing No. Report\_17TH0214, PULS- Power Supply\_60079\_1  
Drawing No. Report\_19MR1-0048-VI1, Visual Inspection Report, Puls Gmbh, Issued on 2019-08-28

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Drawing No. Report\_19MR1-0048\_DNV-GL, Report- \_DNV-GL- 2019-03-13  
Drawing No. Report\_19MR1-0086-a, Project Description and Test Plan- Marine Approval (CP20 Power Supplies)-  
2019-11-19  
Drawing No. Report\_19MR1-0086-b, Project Test Report, SIQ Ljubljana, 2019-12-17  
Drawing No. SYS-Test-Description\_2019-10-29, PULS SYS-Test Description  
Drawing No. Software Quality Plan\_2019-08-09, Software Quality Plan  
Drawing No. xf-1x2c-48, Data Sheet- OMNIMATE Power - Serie BV/SV 7.62IT\_XF-1X2C-48  
Drawing No. xf-1x3c-47, Data Sheet- OMNIMATE Power - Serie BL/SL 7.62IT\_xf-1x3c-47  
Drawing No. xm-1x2a-48, Data Sheet- OMNIMATE Power - Serie BV/SV 7.62IT\_XM-1X2A-48  
Drawing No. xm-1x3a-47, Data Sheet- OMNIMATE Power - Serie BL/SL 7.62IT\_xf-1x3c-47

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

2025 Marine Vessels Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/Table 1

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA



CERTIFICATE NUMBER 25-0260421-PDA-DUP  
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## **PULS INVESTICNI S.R.O.**

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