



CERTIFICATE NUMBER	23-2350839-PDA
EFFECTIVE DATE	30-Jan-2023
EXPIRY DATE	29-Jan-2028
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

WEIDMUELLER INTERFACE GMBH & CO. KG

located at

KLINGENBERGSTRASSE 26, , D-32758 DETMOLD, 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.

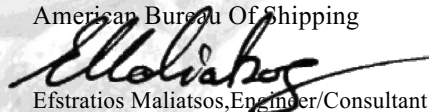
Product: Low Voltage Converter
Model: PRO DCDC 120W 24V 5A, PRO DCDC 240W 24V 10A, PRO DCDC 480W 24V 20A
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29/Jan/2028 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)

WEIDMUELLER INTERFACE GMBH & CO. KG

KLINGENBERGSTRASSE 26

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Tier: 2 - PDA Issued

Product: Low Voltage Converter

Model: PRO DCDC 120W 24V 5A, PRO DCDC 240W 24V 10A, PRO DCDC 480W 24V 20A

Endorsements:

Intended Service:

For use on ABS classed vessels and offshore facilities in accordance with the listed ABS Rules and International Standards.

Description:

Isolation and reconditioning of 24V system.

Rating:

Input voltage: 14 - 32 V DC.

Output voltage: 24 V DC.

Rated current: 5 A, 10 A, 20 A.

Rated power: 120 W, 240 W, 480 W.

Ambient temperature: -25°C ... + 70°C.

Service Restriction:

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.

Comments:

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

Notes/Drawing/Documentation:

Document No. 2017160000_00_06, PRO DCDC 120W 24V 5A - Technical Specification, Revision: --, Pages: 2.

Document No. 2017170000_00_06, PRO DCDC 240W 24V 10A - Technical Specification, Revision: --, Pages: 2.

Document No. 2017190000_00_06, PRO DCDC 480W 24V 20A - Technical Specification, Revision: --, Pages: 2.

Document No. A15-043-WT, Test Report, Shanghai Inspection and Testing Institute of Instruments & Automatic Systems, 30.10.2015, Revision: --, Pages: 49.

Document No. BOM of PRO DCDC 120W 24V 5A, PRO DCDC 120W 24V 5A - Bill of Material, Revision: V05, Pages: 11.

Document No. BOM of PRO DCDC 240W 24V 10A, PRO DCDC 240W 24V 10A - Bill of Material, Revision: V04, Pages: 10.

Document No. BOM of PRO DCDC 480W 24V 20A, PRO DCDC 480W 24V 20A - Bill of Material, Revision: V05, Pages: 8.

Document No. PRO DCDC 120W 24V 5A enclosure, PRO DCDC 120W 24V 5A - Enclosure Diagram, Revision: V06, Pages: 1.

Document No. PRO DCDC 240W 24V 10A enclosure, PRO DCDC 240W 24V 10A - Enclosure Diagram, Revision: V05, Pages: 1.

Document No. PRO DCDC 480W 24V 20A enclosure, PRO DCDC 480W 24V 20A - Enclosure Diagram, Revision: V08, Pages: 1.

Document No. Schematics of PRO DCDC 120W 24V 5A-V03, PRO DCDC 120W 24V 5A - Schematics, Revision: V03, Pages: 3.

Document No. Schematics of PRO DCDC 240W 24V 10A, PRO DCDC 240W 24V 10A - Schematics, Revision: V04, Pages: 3.

Document No. Schematics of PRO DCDC 480W 24V 20A-V03, PRO DCDC 480W 24V 20A - Schematics, Revision: V03, Pages: 3.

Document No. Silkscreen of PRO DCDC 120W 24V 5A, PRO DCDC 120W 24V 5A - Silk Screen, Revision: 0.5, Pages: 2.

Document No. Silkscreen of PRO DCDC 240W 24V 10A, PRO DCDC 240W 24V 10A - Silk Screen, Revision: 0.7,

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Pages: 2.

Document No. Silkscreen of PRO DCDC 480W 24V 20A, PRO DCDC 480W 24V 20A - Silk Screen, Revision: 0.5,
Pages: 2

----- Revalidation 2021 -----

Drawing No. TR2101110701 weidmueller DIN-rail Power Supply PRO DCDC ISPR16-2-3 EMC, EMC Test Report,
PRO DCDC, Delta Technology Service (Shenzhen), 20.01.2021

-----Revalidation 2023-----

Drawing No. PRO DCDC 120W 24V 5A D508 BOM, Bill on Materials

Drawing No. PRO DCDC 240W 24V 10A D509 BOM, Bill on Materials

Drawing No. PRO DCDC 480W 24V 20A OLD BOM, Bill on Materials

Drawing No. TR2210260201, DCDC series EMC Test Report, Delta Technology Service (Shenzhen) Co.

Ltd.03.11.2022

Drawing No. TR2009180201, EMC Test Report, IEC 61000-4-3 (2-6GHz), Delta Technology Service (Shenzhen) Co.
Ltd.2020

Terms of Validity:

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STANDARDS

ABS Rules:

2023 Marine Vessels Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-2/3.7.3, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/Table1

2023 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-2/7.1.6(c), 4-3-1/11, 4-3-1/15, 4-3-1/17

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA