



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAA00002WH**  
Revision No:  
**2**

## This is to certify:

That the **DC/DC Converter**

with type designation(s)

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

Issued to

**Weidmüller Interface GmbH & Co. KG**  
**Detmold, Germany**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

<b>Temperature</b>	<b>D</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>A</b>
<b>EMC</b>	<b>B</b>
<b>Enclosure</b>	<b>A</b>

Issued at **Hamburg** on **2022-11-10**

for **DNV**

This Certificate is valid until **2025-12-02**.

DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Dariusz Lesniewski**

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**Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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## Product description

Nominal input voltage: 24V DC  
Nominal output voltage: 24V DC  
Status indicator:  
DC OK - LED green  
Overload, over temperature, short circuit - LED red  
Degree of protection: IP20  
Corrosion-resistant metal housing  
Mounting: on a mounting rail

PRO DCDC 120W 24V 5A  
Nominal output current: 5A @ 24V DC

PRO DCDC 240W 24V 10A  
Nominal output current: 10A @ 24V DC  
PRO DCDC 480W 24V 20A  
Nominal output current: 20A @ 24V DC

## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

## Type Approval documentation

Test report SITIIAS no. A15-043-WT (30.10.15)  
Test report SITIIAS no. A15-069-WT (18.12.15)  
Test report DTECH no. TR2009180201 (2020.10.9)  
Test report DTECH no. TR2210260201 (2022.11.3)  
Test report Weidmüller no. LAB23457E (2021.07.22)  
UL Certificate of Compliance no. 20150717-E258476/E301017-20150715  
UL Certificate of Compliance no. 20150717-E258476/E301017-20150716  
UL Certificate of Compliance no. 20150717-E258476/E301017-20150717  
PRO DCDC 120W 24V 5A:  
Operating instructions R.T.Nr. 2017160000/00/06.15  
Bill of Material: Version V05 (19.10.15)  
Drawing enclosure: Version V06 (17.07.15)  
Schematics: Version V03 (12.10.15)  
Silkscreen: Version V0.5 (21.04.15)  
PRO DCDC 120W 24V 5A Production Change Notice, dated 2022-07-25  
PRO DCDC 240W 24V 10A:  
Operating instructions R.T.Nr. 2017170000/00/06.15  
Bill of Material: Version V04 (12.10.15)  
Drawing enclosure: Version V05 (17.07.15)  
Schematics: Version V04 (12.10.15)  
Silkscreen: Version V0.7 (21.08.15)  
PRO DCDC 240W 24V 10A Production Change Notice, dated 2022-07-23  
PRO DCDC 480W 24V 20A:  
Operating instructions R.T.Nr. 2017190000/00/06.15  
Bill of Material: Version V05 (12.10.15)  
Drawing enclosure: Version V08 (09.10.15)  
Schematics: Version V03 (12.10.15)  
Silkscreen: Version V0.5 (19.08.15)  
PRO DCDC 480W 24V 20A Production Change Notice, dated 2022-08-10  
Type approval assessment report issued at Hamburg, Germany on 2020-11-11  
Type approval assessment report issued at Guangzhou, China on 2020-11-28

## Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

## Marking of product

The products to be marked with:  
- manufacturer name  
- model name

- serial number
- power supply ratings

### **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE