



Certificate number: 63090/B0 BV

File number: AP4926

Product code: 2670H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Weidmüller Interface GmbH & Co. KG
Detmold - GERMANY

for the type of product

POWER SUPPLY UNITS
DC/DC Converter PRO TOPDC

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
EC Code: 43B/33B, 42B/32B (see item 4.3)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 20 Feb 2031

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 20 Feb 2026,

Dirk Hoepfner

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **PRO TOPDC** series are DC/DC converters with an adjustable output having an IU characteristic with reduced output voltage in parallel connection during overload condition. The converters are provided with ORing MOSFET technology, isolating faulty units in direct parallel connections for high power capacity or redundant topologies.

1.1 - Types:

	Order No.	Output voltage	Peak current reserve at 24VDC	Min. pulse current at 24VDC	HW version	SW version
PRO TOPDC 120W 24V/24V 5A	2627650000	22.5~28.8VDC	6.5A ($\leq 40^{\circ}\text{C}$)	30A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 120W 24V/24V 5A EX	2467290000	22.5~28.8VDC	6.5A ($\leq 40^{\circ}\text{C}$)	30A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 240W 24V/24V 10A	2627640000	22.5~28.8VDC	13A ($\leq 40^{\circ}\text{C}$)	60A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 240W 24V/24V 10A EX	2467300000	22.5~28.8VDC	13A ($\leq 40^{\circ}\text{C}$)	60A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 240W 24V/24V 10A U+	2994030000	18~29.5VDC	13A ($\leq 40^{\circ}\text{C}$)	60A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 480W 24V/24V 20A	2627630000	22.5~28.8VDC	26A ($\leq 40^{\circ}\text{C}$)	100A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 480W 24V/24V 20A EX	2467310000	22.5~28.8VDC	26A ($\leq 40^{\circ}\text{C}$)	100A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 480W 24V/24V 20A U+	2994040000	18~29.5VDC	26A ($\leq 40^{\circ}\text{C}$)	100A (15ms)	01.xx.00	01.00.xx
PRO TOPDC 480W 24V/48V 10A	2627660000	45~56VDC	13A ($\leq 40^{\circ}\text{C}$)	60A (15ms)	01.xx.00	01.00.xx

- Accessories: communication interface PRO COM CAN OPEN (EX), HW: 01.00.xx, SW: 01.00.xx

Nominal input voltage:	24VDC
Degree of protection:	IP 20
Protection class	I
Overvoltage category	III
Pollution degree	2
Output characteristic	IU/I _{Limit} = 120% (1min.) at 60°C, 200% (5 sec.) at 60°C

4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules for the Classification of Steel Ships

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 43B/33B** when mounted directly with PRO TOP brackets **42B/32B** when mounted on DIN mounting rail with end brackets or directly with PRO TOP brackets.

4.4 - Derating curve for temperatures in excess of 60°C to be considered.

4.5 - Only hardware and firmware successfully tested together in compliance with the Rules as referred to in page one, according to the declaration of the manufacturer is covered by this certificate.

4.6 - Ex-certification is not covered by this certificate. Applications in hazardous areas are to be approved in each case according to the Rules, equipment ratings and specific conditions of use specified in a valid Ex-Certificate issued by a Notified body.

4.7 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **Weidmüller Interface GmbH & Co.KG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Weidmüller Interface GmbH & Co.KG** has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Weidmüller Interface GmbH & Co.KG** has declared to Bureau Veritas the following production sites:

6. MARKING OF PRODUCT:

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacture and/or serial number
- Ex Marking, as relevant

7. OTHERS:

7.1 - It is **Weidmüller Interface GmbH & Co.KG's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 63090/A3 BV issued on 12 May 2025 by the Society.

*** END OF CERTIFICATE ***