



**TYPE APPROVAL CERTIFICATE**  
**No. ELE281320XG**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	
<i>Type</i>	<b>Power Supply Unit - DC/DC Converter</b> <b>PRO DCDC 120W 24V 5A; PRO DCDC 240W 24V 10A; PRO DCDC 480W 24V 20A</b>
<i>Applicant</i>	<b>WEIDMUELLER INTERFACE GMBH &amp; CO. KG</b> <b>KLINGENBERGSTRASSE 16</b> <b>32758 DETMOLD, GERMANY</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.</b>

*Issued in Hamburg on October 14, 2020. This Certificate is valid until October 13, 2025*

  
**RINA Services S.p.A.**  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

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**PRO DCDC 120W 24V 5A**

**PRO DCDC 240W 24V 10A**

**PRO DCDC 480W 24V 20A**

### Product Description

- DC/DC Converter module power supply units with following rating:

Parameter	PRO DCDC 120W 24V 5A	PRO DCDC 240W 24V 10A	PRO DCDC 480W 24V 20A
Nominal Input Voltage	24V DC	24V DC	24V DC
Input Voltage Range	18 ~ 32V DC	18 ~ 32V DC	18 ~ 32V DC
Nominal Output Voltage	24V DC ±1%	24V DC ±1%	24V DC ±1%
Residual Ripple (20MHz)	< 20mVpp (at 24V DC)	< 20mVpp (at 24V DC)	< 20mVpp (at 24V DC)
Nominal Output Current	5A (at 24V DC)	10A (at 24V DC)	20A (at 24V DC)
Power Boost (at 24V DC)	6A	12A	24A
Amb. Temperature	-25 ~ 70°C	-25 ~ 70°C	-25 ~ 70°C
Dimension (H x W x D)	130 x 32 x 120 mm	130 x 43 x 120 mm	130 x 75 x 120 mm
IP Degree	IP20	IP20	IP20

### Reference Documents

- Technical Document: WEIDMUELLER's technical document with RINA Approval No. PUEL-4982 ~ PUEL-4996 dated 17/12/2015
- Additional EMC Test Report TR2009180201, Delta Technology Service Co. Ltd., dated 09/10/2020.
- ENV & EMC Test: SITIIS (Shanghai Inspection and Testing Institute of Instruments and Automation Systems)'s test report ref. no. A15-043-WT dated 30/10/2015 :
- Asbestos-free Declaration (SOLAS II-1/reg.3-5): WEIDMUELLER's declaration letter dated 07/03/2011

### Note/Remark

- The product is always subject to the compliance with RINA Rules and other Standards mentioned on certificate
- Type Approval certifies that a representative sample of the product has been found to meet the applicable design criteria
- Any modification or change shall not be valid until approval is granted by RINA as a result of due assessment

### Renewal/Revision

- This Type Approval Certificate supersedes Certificate No. ELE275315PU

Hamburg October 14, 2020