



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.

Description

Type

**Power Supply Unit - DC/DC Converter
PRO DCDC 120W 24V 5A; PRO DCDC 240W 24V 10A; PRO
DCDC 480W 24V 20A**

Applicant

**WEIDMUELLER INTERFACE GMBH & CO. KG
KLINGENBERGSTRASSE 16
32758 DETMOLD, GERMANY**

Reference standards

**Rules for the Classification of Ships - Part C - Machinery,
Systems and fire protection - Ch.3, Sect.6, Tab.1.**

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 $\pm 1\%$	24V DC $\pm 1\%$	24V DC $\pm 1\%$
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: SITIIAS (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 supersede Certificate No. ELE275315PU

Hamburg October 14, 2020

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000