

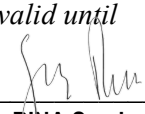


TYPE APPROVAL CERTIFICATE
No. ELE203820XG

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>	COMPACT POWER SUPPLY UNITS.
<i>Type</i>	PRO TOP1, PRO TOP3, PRO TOP DC
<i>Applicant</i>	WEIDMUELLER INTERFACE GMBH & CO. KG KLINGENBERGSTRASSE 16 32758 Detmold GERMANY
<i>Manufacturer</i>	WEIDMUELLER INTERFACE GMBH & CO. KG
<i>Place of manufacture</i>	KLINGENBERGSTRASSE 16 32758 Detmold GERMANY
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.

Issued in **HAMBURG** on **September 16, 2020.** *This Certificate is valid until* **September 15, 2025**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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PRO TOP1, PRO TOP3, PRO TOP DC

Product description:

The PRO TOP 1, PRO TOP 3 and PRO TOP DC series are devices for DC power supply.

Components:

Output Power	Output Voltage	Output Current	Design
PRO TOP 1:			
72 W	24 V	3 A	Standard, F, CO
120 W	12 V	10 A	Standard, F, Ex
120 W	24 V	5 A	Standard, F, Ex
240 W	24 V	10 A	Standard, F, Ex
480 W	24 V	20 A	Standard, F, Ex
480 W	48 V	10 A	Standard, F, Ex
960 W	48 V	20 A	Standard
960 W	24 V	40 A	Standard
960 W	48 V	20 A	CO
960 W	24 V	40 A	Ex
PRO TOP 3:			
120 W	24 V	5 A	Standard, CO
240 W	24 V	10 A	Standard, CO
480 W	24 V	20 A	Standard, CO
480 W	48 V	10 A	Standard, CO
960 W	36 V	26,6 A	CO
960 W	24 V	40 A	Standard, CO
960 W	48 V	20 A	Standard, CO
Standard = output terminal assignment 2(+) / 3(-) F = Flange, output terminal assignment 2(+) / 2(-), connector flange CO = coated Ex = ex-protected			

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PRO TOP 1, PRO TOP 3, PRO TOP DC

Components (continued):

Output Power	Output Voltage	Output Current	Design
PRO TOP DC:			
120 W	24 V	5 A	Standard, Ex
240 W	24 V	10 A	Standard, Ex
Standard = output terminal assignment 2(+) / 3(-) Ex = ex-protected			

Rating (Input):

Voltage: 100 ... 240 V AC at 50/60 Hz (PRO TOP 1), 3x400 ... 500 V at 50/60 Hz (PRO TOP 3), 24 V DC (PRO TOP DC)

Ambient temperature:

Standard device: -25° C ... +60° C (derating: >+60° C ... +70° C)

Ex or CO device: -40° C ... +60° C (derating: >+60° C ... +70° C)

Degree of protection: IP20

Mounting: DIN mounting rail, direct mounting (refer to technical specification)

Status relay: 30 V AC/DC max. 1 A

I/O connection: 0 V/ 24 V

Protection against internal short circuits due to integrated ORing-MOSFET technology.

Direct parallel operation for redundancy or for power increase (up to 10 PRO TOP units).

All power supplies (PRO TOP1, PRO TOP3, PRO TOPDC) are able to operate parallel on output connection with any power supplies of the PRO TOP1, PRO TOP3, PRO TOPDC series.

DIP switches for selection of operating modes (for details see manual).

Accessories:

PRO COM CAN OPEN (Ex): CANopen field bus communication interface for PRO TOP1, PRO TOP3 (marine approved for data monitoring only), (Software: 01.00.x),

PRO TOP Brackets

Software of PRO TOP modules:

PRO TOP1: 02.00.x

PRO TOP3: 02.00.x

PRO TOPDC: 01.00.x

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PRO TOP 1, PRO TOP 3, PRO TOP DC

Documents:

- Technical specifications: PRO TOP...

Test Reports:

SiTiiAS no. A19-001-WT, dated 2019-07-16, A19-001-WT-01, dated 2019-09-02, A19-008-WT, dated 2019-11-08;
DTECH no. TR1910150502, dated 2019-12-12, TR1911040602, dated 2019-12-12, TR1908020101, dated 2019-09-18;

BSH Certificate no. 1039, dated 2019-12-03, 1042, dated 2020-01-23;

Weidmueller Central Laboratory no. LAB22265E, dated 2019-03-28, LAB22327E, dated 2019-05-17, LAB22345E, dated 2019-05-31, LAB22660E, dated 2019-12-13, LAB22909E, dated 2020-04-06, LAB22914E, dated 2020-07-09, LAB22910E dated 2020-07-23, LAB22931E, dated 2020-07-23;

EMC Test NRW: P20-Z-00055-001, dated 2020-07-08, P20-Z-00055-002, dated 2020-07-08

Remarks:

- The products fulfill **EC-Code: EC 3a3/43**.

- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment (PRO TOP1, PRO TOPDC).

HAMBURG September 16, 2020

