



中国船级社
CHINA CLASSIFICATION SOCIETY
型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

品牌拥有方/ Licensor

Weidmüller Interface GmbH & Co. KG
Klingenbergstrasse 26, 32758 Detmold, Germany

产品名称/Product

开关电源模块
Switch Mode Power Supply
不间断电源
Uninterruptible Power System

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》（2022）及其变更通告 第4篇第1章，第7篇第2章
Part Four Chapter 1, Part Seven Chapter 2 of China Classification Society Rules for Classification of Sea-Going Steel Ships 2022 and its Change Notices

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

不间断电源/Uninterruptible Power System (M0001)

名称/Name	属性（值）/Value	单位/Unit
型号/Type	PRO TOP1, TOP3 and accessory	
额定输入电压/Rated Input Voltage	PRO TOP1: up to 85 - 277 V AC PRO TOP3: up to 3 x 400 - 500 V AC	
额定输入频率/Rated Input Frequency	up to 45 - 65 Hz	
额定输出电压/Rated Output Voltage	up to 48 V DC	
额定输出视在功率/Rated Output Apparent Power	up to 960 W	

证书有效期至/ This Certificate is valid until 2027年05月28日/ May. 28, 2027

发证机构/ Issued by 中国船级社汉堡分社
CCS Hamburg Branch

签发日期/ Date 2023年05月29日
May. 29, 2023

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

Form No: T02.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

额定输出电流/Rated Output Current	up to 40 A	
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批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP21PPP04687

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : see additional pages

试验报告日期/ Test Report Date :

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验，经检验合格后由制造厂签发合格证明，并连同该产品的本社认可证书复印件一并交付用户，制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。

After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后，如果产品及其重要零部件的设计、所用材料或制造方法有所改变，且影响到产品的主要特性、特征；或产品的性能指标有所更改，且超过认可的范围，则有关图纸和文件应经检验机构审批。并在检验机构认为必要时，经本社检验人员见证有关试验和进行检查，其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行，并且与认可时一致。如果质量管理体系发生改变，应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内，如果出现可能导致本社取消认可的情况，工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书，且无需颁发船用产品证书/等效证明文件的情况，证书获得者应接受本社每年一次的定期审核，定期审核日为认可证书期满之日对应的每一周年日，检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.
However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社汉堡分社
CCS Hamburg Branch

注：本证书含有附页，共2页

Note: The certificate is attached with additional 2 page(s)

Products description

PRO TOP1

Model	Description	HVN	SVN
PRO TOP1 120W 12V 10A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 120W 12V 10A EX	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 120W 12V 10A F	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 120W 24V 5A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 120W 24V 5A EX	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 120W 24V 5A F	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 240W 24V 10A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 240W 24V 10A EX	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 240W 24V 10A F	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 480W 24V 20A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 480W 24V 20A EX	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 480W 48V 10A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 480W 48V 10A EX	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 72W 24V 3A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 72W 24V 3A CO	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 72W 24V 3A F	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 960W 24V 40A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 960W 24V 40A EX	Power Supply: 1 phase AC input, DC output	03.xx.00	02.00.xx
PRO TOP1 960W 48V 20A	Power Supply: 1 phase AC input, DC output	02.xx.00	02.00.xx
PRO TOP1 960W 48V 20A CO	Power Supply: 1 phase AC input, DC output	03.xx.00	02.00.xx

PRO TOP3

Model	Description	HVN	SVN
PRO TOP3 120W 24V 5A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 120W 24V 5A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 240W 24V 10A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 240W 24V 10A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 480W 24V 20A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 480W 24V 20A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 480W 48V 10A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 480W 48V 10A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 960W 24V 40A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 960W 24V 40A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 960W 36V 26,6A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 960W 48V 20A	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx
PRO TOP3 960W 48V 20A CO	Power Supply: 3 phase AC input, DC output	01.xx.00	02.00.xx

PRO ACCESSORY

Model	Description	HVN	SVN
PRO COM CAN OPEN	Accessory: Communication Module	01.00.xx	01.00.xx
PRO COM CAN OPEN EX	Accessory: Communication Module	01.00.xx	01.00.xx

Explosion-Proof marking: It has IECEx etc. certificate, such as follow:

Ex ec nC IIC T4 Gc

IECEx Certificate of Conformity No.: IECEx TPS 18.0009X

Issuing Body: TUEV SUED Product Service GmbH

The Compass Safe Distance, see below table,

Model	Standard compass	Steering compass
PRO TOP1 72W 24V 3A F	0.7 m	0.5 m
PRO TOP1 120W 12V 10A	0.75 m	0.5 m
PRO TOP1 120W 24V 5A Ex	0.7 m	0.45 m
PRO TOP1 240W 24V 10A Ex	0.7 m	0.45 m
PRO TOP1 480W 24V 20 A	0.7 m	0.45 m
PRO TOP1 480W 48V 10 A	0.9 m	0.45 m
PRO TOP1 960W 48V 20A	0.8 m	0.55 m
PRO TOP1 960W 24V 40A	0.9 m	0.6 m
PRO TOP1 960W 48V 20A CO	1.0 m	0.6 m
PRO TOP1 960W 24V 40A Ex	1.9 m	0.9 m

Approval Test Report

No	Test Report No.	Test Report Date
1.	A19-001-WT	2019.07.16
2.	A19-001-WT-01	2019.09.02
3.	A19-008-WT	2019.11.08
4.	BSH Certificate No. 1039	2019.12.03
5.	BSH Certificate No. 1042	2020.01.23
6.	LAB22265E	2019.03.28
7.	LAB22327E	2019.05.17
8.	LAB22345E	2019.05.31
9.	LAB22660E	2019.12.13
10.	LAB22931E	2020.07.23
11.	TR1910150502	2019.12.12
12.	TR1908020101	2019.09.18
13.	TR1911040602	2019.12.12
14.	TR2007100601	2020.09.02
15.	TR2101110703	2021.01.22
16.	ET1230	2021.10.24
17.	ET1103	2021.03.08
18.	ET1104	2021.03.08
19.	ET1195	2021.07.08
20.	ET1109	2021.03.18
21.	ET1110	2021.03.18
22.	ET1115	2021.03.26
23.	ET1116	2021.03.26
24.	ET1231	2021.10.24
25.	ET1112	2021.03.22
26.	ET1113	2021.03.22
27.	ET1196	2021.07.10

Limitation/Application:

Please see production operating instructions.

The Ex-Proof parameters of the approved products originate from Ex- Certificate received from manufacturer, not approved by CCS.

The above mentioned devices can be installed with an Ex-approval as well as without Ex-approval according to the field of application.

If the device is used for explosive-proof purposes, the explosion-proof certificate is essential, and the Type Approval Certification will be invalid if the Ex-approved products do not hold valid Ex Certificate. For Ex-devices it is absolutely necessary to affix the above ignition protection label to the device.

Whereas an application in non-explosive area does not require an Ex-certificate.