

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.

制造厂/Manufacturer

浙江博舟船用电气科技有限公司
Zhejiang Bozhou Marine Electric technology CO.,LTD

地址/Address

浙江省温州市乐清市磐石镇卫城北村、河北村
Hebei Village, WeiCheng North Village, Panshi Town, Yeqing County, WenzhouCity, Zhejiang Province

产品名称/Product

航行灯
Navigation Light

认可标准/Approval Standard

- 1972年国际海上避碰规则及其修正案附录I
Annex I of Convention on The International Regulations for Preventing Collision at Sea (COLREG)1972 and its Amendments
- 国际海事组织大会决议A. 694 (17)《作为全球海上遇险和安全系统（遇险和安全系统）组成部分的船载无线电设备和电子助航设备的一般要求》
IMO Resolution A.694(17) General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids
- 国际海事组织海安会决议MSC. 253 (83)《通过航行灯、航行灯控制器和相关设备的性能标准》
IMO Resolution MSC.253(83) Adoption of the Performance Standards for Navigation Lights, Navigation Light Controllers and Associated Equipment
- 中华人民共和国海事局《船舶与海上设施法定检验规则—国际航行海船法定检验技术规则》（2014）及其修改通报第4篇第13章
Chapter 13, Part Four of China MSA Regulation for Statutory Survey of Ships and Offshore Installations - Technical Regulation for Statutory Surveys of Sea-Going Ships Engaged on International Voyage (2014) and its Amendments.
- 中华人民共和国海事局《船舶与海上设施法定检验规则—国内航行海船法定检验技术规则》（2020）及其修改通报第4篇第8章
Chapter 8, Part Four of China MSA Regulation for Statutory Survey of Ships and Offshore Installations - Technical Regulation for Statutory Surveys of Sea-Going Ships Engaged on Domestic Voyages (2020) and its Amendments
- 中华人民共和国海事局《船舶与海上设施法定检验规则—内河船舶法定检验技术规则》（2019）及其修改通报第5篇第7章
Chapter 7, Part Five of China MSA Regulation for Statutory Survey of Ships and Offshore Installations - Technical Regulations for the Statutory Surveys of Inland Waterways Ships (2019) and its Amendments
- IEC 60945:2002/COR1:2008《船用航行和无线电通信设备及系统—通用要求—试验方法和试验结果的要求》
IEC 60945:2002/COR1:2008 Maritime Navigation and Radiocommunication Equipment and Systems – General Requirements – Methods of Testing and Required Test Results

证书有效期至/This Certificate is valid until 2029年07月28日/ Jul. 28,2029

发证机构 中国船级社浙江分社
Issued by CCS Zhejiang Branch

签发日期 2024年07月29日
Date Jul. 29,2024

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Form No: T01.

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>)



UTN:P024-29028358

用于/Intended for

产品用途/Application of products:国际航行海船/International sea-going ship, 国内航行海船/Domestic sea-going ship, 内河船舶/Inland waters ship;
产品使用限定条件/Restrictive condition of products:见附页/See Additional Page(s).

产品明细/Product Description

航行灯/Navigation Lights (M0001)

| 名称/Name | 属性（值）/Value | 单位/Unit |
|------------------------------|----------------------------|---------|
| 产品名称/Product Name | 见附页 See Additional Page(s) | |
| 型号/Type | 见附页 See Additional Page(s) | |
| 额定电压/Rated Voltage | 见附页 See Additional Page(s) | |
| 光源功率 /Power of Source | 见附页 See Additional Page(s) | |
| 光源类型/Type of Source | 见附页 See Additional Page(s) | |
| 可视距离/Visibility of Light | 见附页 See Additional Page(s) | |
| 可视角度/Visibility Sector | 见附页 See Additional Page(s) | |
| 颜色/Color | 见附页 See Additional Page(s) | |
| 外壳防护等级 /Degree of Protection | 见附页 See Additional Page(s) | |
| 透镜材料/Material of Lens | 见附页 See Additional Page(s) | |
| 外壳材料/Material of Housing | 见附页 See Additional Page(s) | |
| 双层或单层 /Duplex or Single Type | 见附页 See Additional Page(s) | |

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : ZG23PPP20320, ZG23PPP20321, ZG23PPP20326, ZG23PPP20327

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : NBKQ24030322, NBKQ24030323, NBKQ24030324, NBKQ24030325, NBKQ24030326
试验报告日期/ Test Report Date : 2024-06-11

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.

中国船级社浙江分社

CCS Zhejiang Branch

注：本证书含有附页，共3页

Note: The certificate is attached with additional 3 page(s)

产品明细/Product Description

| 产品名称 Product Name | 型号 Type | 额定电压 Rated Power | 光源类型 Type of Source | 光源功率 Power of Source | 可视距离 Visibility of Light | 可视角度 Visibility Sector | 外壳防护等级 Degree of Protection | 颜色 Color | 透镜材料 Material of Lens | 外壳材料 Material of Housing | 双层或单层 Duplex or Single Type | 产品使用 限定条件 Restrictive condition of products | 图纸批准号 Drawings Approval No. |
|-------------------------|------------|---------------------------------|---------------------------------|-------------------------|-----------------------------|---------------------------|--------------------------------|--------------------------------------|--------------------------|-----------------------------|--------------------------------|---|--------------------------------|
| 右舷灯 Starboard light | CXH1-11P | AC. 220V AC. 110V DC. 24V | 白炽光源 Incandescent Illuminant | 60W | 3 n. m | 112.5° | IP56 | 绿 Green | 聚碳酸酯 PC | 工程塑料 Engineering Plastic | 单层 Single Type | 无/Nil. | ZG23PPP20320 |
| 左舷灯 Port Light | CXH2-11P | | | | 3 n. m | 112.5° | | 红 Red | | | | | |
| 桅灯 Masthead Light | CXH3-11P | | | | 6 n. m | 225° | | 白 White | | | | | |
| 艏灯 Stern Light | CXH4-11P | | | | 3 n. m | 135° | | 白 White | | | | | |
| 环照灯 All-around LIght | CXH6-11P | | | | 3 n. m | 360° | | 白 White 红 Red 绿 Green | | | | | |
| 右舷灯 Starboard light | CXH1-101P | AC. 220V AC. 110V DC. 24V | 白炽光源 Incandescent Illuminant | 2×60W | 3 n. m | 112.5° | IP56 | 绿 Green | 聚碳酸酯 PC | 工程塑料 Engineering Plastic | 双层 Duplex Type | 无/Nil. | ZG23PPP20320 |
| 左舷灯 Port Light | CXH2-101P | | | | 3 n. m | 112.5° | | 红 Red | | | | | |
| 桅灯 Masthead Light | CXH3-101P | | | | 6 n. m | 225° | | 白 White | | | | | |
| 艏灯 Stern Light | CXH4-101P | | | | 3 n. m | 135° | | 白 White | | | | | |
| 环照灯 All-around LIght | CXH6-101P | | | | 3 n. m | 360° | | 白 White 红 Red 绿 Green | | | | | |

产品明细/Product Description

| 产品名称 Product Name | 型号 Type | 额定电压 Rated Power | 光源类型 Type of Source | 光源功率 Power of Source | 可视距离 Visibility of Light | 可视角度 Visibility Sector | 外壳防护等级 Degree of Protection | 颜色 Color | 透镜材料 Material of Lens | 外壳材料 Material of Housing | 双层或单层 Duplex or Single Type | 产品使用 限定条件 Restrictive condition of products | 图纸批准号 Drawings Approval No. |
|-------------------------|------------|---------------------------------|---------------------------------|-------------------------|-----------------------------|---------------------------|--------------------------------|--------------------------------------|--------------------------|-----------------------------|--------------------------------|---|--------------------------------|
| 右舷灯 Starboard light | CXH1-21P | DC. 12V DC. 24V | 白炽光源 Incandescent Illuminant | 25W | 2 n. m | 112.5° | IP56 | 绿 Green | 聚碳酸酯 PC | 工程塑料 Engineering Plastic | 单层 Single Type | 长度小于 50 米的船舶 Vessels of less than 50 metres in length | ZG23PPP20321 |
| 左舷灯 Port Light | CXH2-21P | | | | 2 n. m | 112.5° | | 红 Red | | | | | |
| 桅灯 Masthead Light | CXH3-21P | | | | 5 n. m | 225° | | 白 White | | | | | |
| 艉灯 Stern Light | CXH4-21P | | | | 2 n. m | 135° | | 白 White | | | | | |
| 环照灯 All-around LIght | CXH6-21P | | | | 2 n. m | 360° | | 白 White 红 Red 绿 Green | | | | | |
| 右舷灯 Starboard light | CXH1-12S | AC. 220V AC. 110V DC. 24V | 白炽光源 Incandescent Illuminant | 60W | 3 n. m | 112.5° | IP56 | 绿 Green | 聚碳酸酯 PC | 不锈钢 304 Stainless steel | 单层 Single Type | 无/Nil. | ZG23PPP20337 |
| 左舷灯 Port Light | CXH2-12S | | | | 3 n. m | 112.5° | | 红 Red | | | | | |
| 桅灯 Masthead Light | CXH3-12S | | | | 6 n. m | 225° | | 白 White | | | | | |
| 艉灯 Stern Light | CXH4-12S | | | | 3 n. m | 135° | | 白 White | | | | | |
| 环照灯 All-around LIght | CXH6-12S | | | | 3 n. m | 360° | | 白 White 红 Red 绿 Green | | | | | |

产品明细/Product Description

| 产品名称 Product Name | 型号 Type | 额定电压 Rated Power | 光源类型 Type of Source | 光源功率 Power of Source | 可视距离 Visibility of Light | 可视角度 Visibility Sector | 外壳防护等级 Degree of Protection | 颜色 Color | 透镜材料 Material of Lens | 外壳材料 Material of Housing | 双层或单层 Duplex or Single Type | 产品使用限定条件 Restrictive condition of products | 图纸批准号 Drawings Approval No. |
|-------------------------|------------|---------------------------------|---------------------------------|-------------------------|-----------------------------|---------------------------|--------------------------------|--------------------------------------|--------------------------|-----------------------------|--------------------------------|---|--------------------------------|
| 右舷灯 Starboard light | CXH1-102S | AC. 220V AC. 110V DC. 24V | 白炽光源 Incandescent Illuminant | 2×60W | 3 n. m | 112.5° | IP56 | 绿 Green | 聚碳酸酯 PC | 不锈钢 304 Stainless steel | 双层 Duplex Type | 无/Nil. | ZG23PPP20336 |
| 左舷灯 Port Light | CXH2-102S | | | | 3 n. m | 112.5° | | 红 Red | | | | | |
| 桅灯 Masthead Light | CXH3-102S | | | | 6 n. m | 225° | | 白 White | | | | | |
| 艉灯 Stern Light | CXH4-102S | | | | 3 n. m | 135° | | 白 White | | | | | |
| 环照灯 All-around LIght | CXH6-102S | | | | 3 n. m | 360° | | 白 White 红 Red 绿 Green | | | | | |

备注：当艉灯更换为黄色灯光时（其他条件不变），可作为拖带灯使用。
Remark: The stern light can be used as towing light when the light color is yellow.

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