



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
WZ25PTB00033_01

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

海星海事电气集团有限公司
HAIXING MARITIME ELECTRIC GROUP

地址/Address

浙江省温州市永嘉县乌牛街道岭下工业园经三路
Jingsan Road, Lingxia Industrial Zone, Wuniu, Yongjia, Wenzhou, Zhejiang Province

产品名称/Product

航行灯
Navigation Light

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 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.
2. 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
3. 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
4. 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 Collisions at Sea, 1972 (COLREGs) and its Amendments
5. 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
6. 国际海事组织海上安全会议决议MSC. 253 (83)《通过航行灯、航行灯控制器和相关设备的性能标准》

证书有效期至/This Certificate is valid until 2030年07月25日/ Jul. 25, 2030

发证机构/中国船级社温州办事处
Issued by CHINA CLASSIFICATION SOCIETY Wenzhou Office

签发日期 2025年07月23日
Date Jul. 23, 2025

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。本证书凡是未注明版本的规范, 其(发证时)最新版本适用于本证书。
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. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the certificate.**



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:P025-31668530

IMO Resolution MSC.253(83) Adoption of the Performance Standards for Navigation Lights, Navigation Light Controllers and Associated Equipment
7. 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
8. EN14744-2005 《内陆导航设备和海上导航设备—导航灯》
EN 14744 Inland navigation vessels and sea-going vessels-Navigation light

用于/Intended for

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

产品明细/Product Description

航行灯/Navigation Lights (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	见附页 See Additional Page(s)	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: 见附页/See Additional Page(s)

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: W0509M0028~W0509M0031

试验报告日期/ Test Report Date: 2006-01-09

试验单位/ Laboratory: 上海时代之光照明电器检测有限公司 Shanghai Alpha Lighting Equipment Testing Limited

试验单位地址/ Test Address: 上海市苍梧路381号 No.381 Cangwu Road, Shanghai

试验报告编号/ Test Report No.: W0509M0019~W0509M0022

试验报告日期/ Test Report Date: 2006-04-25

试验单位/ Laboratory: 上海时代之光照明电器检测有限公司 Shanghai Alpha Lighting Equipment Testing Limited

试验单位地址/ Test Address: 上海市苍梧路381号 No.381 Cangwu Road, Shanghai

试验报告编号/ Test Report No.: W09121M00023, W09121M00024, W09121M00027

试验报告日期/ Test Report Date: 2009-11-29

试验单位/ Laboratory: 国家灯具质量监督检验中心 China National Lighting Fitting Quality Supervision Testing Center

试验单位地址/ Test Address: 上海市闵行区江月路900号 No.900 Jiangyue Road, Minhang District, Shanghai

试验报告编号/ Test Report No.: W09121M00025

试验报告日期/ Test Report Date: 2010-01-28

试验单位/ Laboratory: 国家灯具质量监督检验中心 China National Lighting Fitting Quality Supervision Testing Center

试验单位地址/ Test Address: 上海市闵行区江月路900号 No.900 Jiangyue Road, Minhang District, Shanghai

试验报告编号/ Test Report No.: ZG20101208001

试验报告日期/ Test Report Date: 2010-10-28

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District, Wuniu, Yongjia, Wenzhou, Zhejiang Province

试验报告编号/ Test Report No.: ZG20110613001~ZG20110613010

试验报告日期/ Test Report Date: 2011-06-13

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District, Wuniu, Yongjia, Wenzhou, Zhejiang Province

试验报告编号/ Test Report No.: ZG20110613011~ZG20110613015

试验报告日期/ Test Report Date: 2011-06-13

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District, Wuniu, Yongjia, Wenzhou, Zhejiang Province

试验报告编号/ Test Report No. : WM1112150016~WM1112150025

试验报告日期/ Test Report Date : 2011-08-16

试验单位/ Laboratory: 国家灯具质量监督检验中心 China National Lighting Fitting Quality Supervision Testing Center

试验单位地址/ Test Address: 上海市闵行区江月路900号 No.900 Jiangyue Road,Minhang District,Shanghai

试验报告编号/ Test Report No. : WM1112150041~WM1112150050

试验报告日期/ Test Report Date : 2011-10-13

试验单位/ Laboratory: 国家灯具质量监督检验中心 China National Lighting Fitting Quality Supervision Testing Center

试验单位地址/ Test Address: 上海市闵行区江月路900号 No.900 Jiangyue Road,Minhang District,Shanghai

试验报告编号/ Test Report No. : ZG20140705001~ZG20140705004

试验报告日期/ Test Report Date : 2014-08-05

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District,Wuniu,Yongjia,Wenzhou,Zhejiang Province

试验报告编号/ Test Report No. : ZG20140705008

试验报告日期/ Test Report Date : 2014-08-05

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District,Wuniu,Yongjia,Wenzhou,Zhejiang Province

试验报告编号/ Test Report No. : ZG20140705005~ZG20140705007

试验报告日期/ Test Report Date : 2014-08-05

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District,Wuniu,Yongjia,Wenzhou,Zhejiang Province

试验报告编号/ Test Report No. : (2015)MJDZ-0994、0996、0998、1002

试验报告日期/ Test Report Date : 2015-11-18

试验单位/ Laboratory: 福建省产品质量检验研究院 Fujian Inspection and Research Institute for Product Quality□FQII

试验单位地址/ Test Address: 福州市杨桥西路山头角121号 121 Shantoujiao,West Yang Qiao Road□Fuzhou,P.R.of China

试验报告编号/ Test Report No. : (2015)MJDZ-1004

试验报告日期/ Test Report Date : 2015-11-24

试验单位/ Laboratory: 福建省产品质量检验研究院 Fujian Inspection and Research Institute for Product Quality□FQII

试验单位地址/ Test Address: 福州市杨桥西路山头角121号 121 Shantoujiao,West Yang Qiao Road,Fuzhou,P.R.of China

试验报告编号/ Test Report No. : (2015)MJDZ-1000

试验报告日期/ Test Report Date : 2015-12-16

试验单位/ Laboratory: 福建省产品质量检验研究院 Fujian Inspection and Research Institute for Product Quality□FQII

试验单位地址/ Test Address: 福州市杨桥西路山头角121号 121 Shantoujiao,West Yang Qiao Road,Fuzhou,P.R.of China

试验报告编号/ Test Report No. : SZANL180313001-01~SZANL180313005-01

试验报告日期/ Test Report Date : 2018-05-03

试验单位/ Laboratory: 深圳安博检测股份有限公司 Shenzhen Anbotek Compliance Laboratory Limited

试验单位地址/ Test Address: 深圳市坪山新区青松西路41号C栋首层 First floor,Building C,No.41,Qingsong West Road,Pingshan New District,Shenzhen

试验报告编号/ Test Report No. : ZG20180622001~ZG20180622025

试验报告日期/ Test Report Date : 2018-06-23

试验单位/ Laboratory: 海星海事电气集团有限公司 HAIXING MARITIME ELECTRIC GROUP

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛镇工业区 Industrial District,Wuniu,Yongjia,Wenzhou,Zhejiang Province

试验报告编号/ Test Report No. : (2018)MJDZ-0539~(2018)MJDZ-0541

试验报告日期/ Test Report Date : 2018-08-24

试验单位/ Laboratory: 福建省产品质量检验研究院 Fujian Inspection and Research Institute for Product Quality□FQII

试验单位地址/ Test Address: 福州市杨桥西路山头角121号 121 Shantoujiao,West Yang Qiao Road□Fuzhou,P.R.of China

试验报告编号/ Test Report No. : ZG20210322001~ZG20210322013

试验报告日期/ Test Report Date : 2021-03-22

试验单位/ Laboratory: 海星海事电气集团有限公司 Haixing Maritime Electric Group

试验单位地址/ Test Address: 浙江省温州市永嘉县乌牛街道岭下工业园经三路 Jingsan Road,Lingxia Industrial Zone,Wuniu,Yonglia,Wenzhou,Zhejiang Province

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:

认可后的产品由制造厂检验合格后签发合格证明, 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. 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

1. 本证书由原型式认可证书(No. ZG20PTB00136)换新。

This certificate is renewed from the previous Type Approval Certificate No. ZG20PTB00136.

2. 严禁拆开灯具接线。

To take apart the light is forbidden even for connecting the wire.

3. 应根据产品说明书的要求安装灯具及更换光源。

Light installation and light source changing should meet the requirements of product specification.

4. LED应仅在制造厂规定的使用寿命(实际有效期)内使用以保持必要的发光强度。

LEDs should only be used within the lifespan (practical term of validity) specified by the

manufacturer to maintain the necessary luminous intensity of LEDs.

5. 船长50m及以上海上航行船舶的航行灯(桅灯、舷灯、尾灯)应配备双套灯具或双灯泡。

Navigation lights (masthead light, sidelights, stern light) installed on board a sea-going ship not less than 50m in length should be duplicated or to be fitted with duplicated lamp.

6. 内河船舶的航行灯能见距离应符合《内河船舶法定检验技术规则》的规定。

Navigation lights installed on board a inland waters ship, Visibility of Light should according to the Technical Regulations for the Statutory Surveys of Inland Waterways Ships.

7. 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.

中国船级社温州办事处

CCS Wenzhou Office

注: 本证书含有附页, 共12页

Note: The certificate is attached with additional 12 page(s)

! /Product Description" 1#

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? @ A/46: 1.3	B C DE9,	F ' GH +I., 63 24:IJ,	K L M B DE9, 347 -4: /1,	K L N O A4P, /347 34: /1,	Q R S T U0000E 4739 W	X Y Q R Z [\ 4/Q45.I> 20 P 5J 35J>	^ _ ` a b, j /, , 3473 9/4, 1.045	c d e f C g 99/42I 38 = 48473 6/IP 5J -	h i j 44/	k l m n o I., /I 347 >5-	p q m n o I., /I 347 47394: -5J	r K s m n o I., /I 3473 -V 634.,	t u v w u b: 9> x34/3 -5J > 3E9,			
右舷灯 Starboard light	CXH1-11P	AC.220V	白炽光源 Incandescent illuminant	65W	3 n. m	112.5°	IP56	SH05A0018 5_03	绿 Green	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforced nylon PA2G30	不锈钢 Stainless steel 304	单层Single			
		AC.110V AC./DC.24V		60W							双层Duplex					
	CXH1-101P	AC.220V		2×65W				ZG14A0005 0			IP55		SH05A0018 5_01	钢质Steel	钢质Steel	双层Duplex
		AC.110V AC./DC.24V		2×60W												
	CXH1-1S	AC.220V		65W			黄铜Brass H59	黄铜Brass H59			单层Single					
		AC.110V AC./DC.24V		60W												
	CXH1-10S	AC.220V		2×65W			钢质Steel	钢质Steel			双层Duplex					
		AC.110V AC./DC.24V		2×60W												
	CXH1-10B	AC.220V		2×65W			钢质Steel	钢质Steel			双层Duplex					
		AC.110V AC./DC.24V		2×60W												
	CXH1-10B2	AC.220V		2×65W			钢质Steel	钢质Steel			单层Single					
		AC.110V AC./DC.24V		2×60W												
CXH1-1D	AC.220V	65W	钢质Steel	钢质Steel	单层Single											
	AC.110V AC./DC.24V	60W														

? @ A/46: 1.3I	B C DE9,	F ' GH +I., 63 24>IJ ,	K L MB DE9, 3/7 -4: /1,	K L NO A4P, /3/7 34: /1,	Q R S T U00/00E 4739 W	X Y Q R Z [4/Q45.I>3 20 P 5J 3 5J >	^ _ ` a b,J/, , 3/7 9/4, 1.045	c d e f C g 99/42I >3- 48 4736/IP 5J -	h i j 4>/	k l m n o I., /0 >3/7 >5-	p q m n o I., /0 >3/7 473W: -5J	r K s m n o I., /0 >3/7 -W0 >639I.,	t u v w u b: 9>x3/3 -5J >3E9,	
左舷灯 Port light	CXH2-11P	AC.220V	白炽光源 Incandescent illuminant	65W	3 n. m	112.5°	IP56	SH05A00185_03	红 Red	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforce d nylon PA2G30	不锈钢 Stainless steel 304	单层Single	
		AC.110V AC./DC.2 4V		60W									双层Duplex	
	CXH2-101P	AC.220V		2×65W										
		AC.110V AC./DC.2 4V		2×60W										
	CXH2-1S	AC.220V		65W				ZG14A00050			不锈钢 Stainless steel 304	不锈钢 Stainless steel 304	单层Single	
		AC.110V AC./DC.2 4V		60W										
	CXH2-10S	AC.220V		2×65W				IP55			SH05A00185_01	钢质Steel	钢质Steel	
		AC.110V AC./DC.2 4V		2×60W										
	CXH2-10B	AC.220V		2×65W										
		AC.110V AC./DC.2 4V		2×60W										
	CXH2-10B2	AC.220V		2×65W			SH05A00185_01	黄铜 Brass H59			黄铜 Brass H59			
		AC.110V AC./DC.2 4V		2×60W										
	CXH2-1D	AC.220V		65W			钢质Steel	钢质Steel			单层Single			
		AC.110V AC./DC.2 4V		60W										

? @ A/46: 1.35	B C DE9,	F ' GH +1., 63 24>IJ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U00/00E 4730 W	X Y Q R Z [\\ 4/Q45.I>3 20 P 0J 3 I5J>	^ _ ` a b,J /,, 3473 9/4., 1.045	c d e f C g 99/42I>8-48 4735/IP 0J -	h i j 4>4/	k l m n o I., /Q>347 >5-	p q m n o I., /Q>347 473M: -0J	r K s m n o I., /Q> 473 -W0>634.,	t u v w u b: 9>x34/3 -0J>3E9,
桅灯 Masthead light	CXH3-11P	AC.220V	白炽光源 Incandescent illuminant	65W	6 n. m	225°	IP56	SH05A00185_03	白 White	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforce d nylon PA2G30	不锈钢 Stainless steel 304	单层Single
		AC.110V AC./DC.24 V		60W									双层Duplex
	CXH3-101P	AC.220V		2×65W									
		AC.110V AC./DC.24 V		2×60W									单层Single
	CXH3-1S	AC.220V		65W				ZG14A00050			不锈钢 Stainless steel 304	双层Duplex	
		AC.110V AC./DC.24 V		60W									
	CXH3-10S	AC.220V		2×65W							不锈钢 Stainless steel 304		双层Duplex
		AC.110V AC./DC.24 V		2×60W									
	CXH3-10B	AC.220V		2×65W			钢质Steel				钢质Steel		
		AC.110V AC./DC.24 V		2×60W									
	CXH3-10B2	AC.220V		2×65W			黄铜 Brass H59	黄铜 Brass H59					
		AC.110V AC./DC.24 V		2×60W									
	CXH3-1D	AC.220V		65W			钢质Steel	钢质Steel			单层Single		
		AC.110V AC./DC.24 V		60W									

? @ A/46: 1.3	B C DE9,	F ' GH +I., 63 24>IJ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U00/00E 4739 W	X Y Q R Z [\ 4/Q45.I>3 20 P 5J 3 5J >	^ _ ` a b, j /, , 3473 9/4, 1.045	c d e f C g 99/42I >3-48 4735/IP 5J -	h i j 4>/	k l m n o I., /Q >347 >5-	p q m n o I., /Q >3473 W: -5J	r K s m n o I., /Q >3473 -W >63 9>1.,	t u v w u b: 9>x34/3 -5J >3E9,
舰灯 Stern light	CXH4-11P	AC.220V	白炽光源 Incandescent illuminant	65W	3 n. m	135°	IP56	SH05A00185 _03	白 White	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforced nylon PA2G30	不锈钢 Stainless steel 304	单层Single
		AC.110V AC./DC.24 V		60W									双层Duplex
	CXH4-101P	AC.220V		2×65W									
		AC.110V AC./DC.24 V		2×60W									ZG14A00050
	CXH4-1S	AC.220V		65W									
		AC.110V AC./DC.24 V		60W									
	CXH4-10S	AC.220V		2×65W									
		AC.110V AC./DC.24 V		2×60W									
	CXH4-10B	AC.220V		2×65W									
		AC.110V AC./DC.24 V		2×60W									
	CXH4-10B2	AC.220V		2×65W									
		AC.110V AC./DC.24 V		2×60W									
	CXH4-1D	AC.220V		65W				单层Single					
		AC.110V AC./DC.24 V		60W									

? @ A/46: 1.3Iy	B C DE9,	F' GH +I., 63 24>IJ,	K L M B DE9, 34734: /1,	K L N O A4P, /3473 -4: /1,	Q R S T U0C 4739 W	X Y Q R Z [\\ 4/Q45.I> 20 P 5J 3 5J >	^ _ ` a b, j /, , 347 9/4, 1.045	c d e f C g 99/42I > 48 4735/IP 5J -	h i j 4>/	k l m n o I., /Q > 3473 > 5-	p q m n o I., /Q > 347 W: -5J	t u v w u b: 9> x34/3 -5J > 3E9,					
环照灯 All-around light	CXH6-11P	AC.220V	白炽光源 Incandescent illuminant	65W	3 n. m	360°	IP56	SH05A00185_03	白 White 红 Red 绿 Green 黄 Yellow	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforced nylon PA2G30	单层Single					
		AC.110V AC./DC.24V		60W								双层Duplex					
	CXH6-101P	AC.220V		2×65W													
		AC.110V AC./DC.24V		2×60W													
	CXH6-1S	AC.220V		65W							不锈钢 Stainless steel 304	单层Single					
		AC.110V AC./DC.24V		60W								双层Duplex					
	CXH6-10S	AC.220V		2×65W				ZG14A00050									
		AC.110V AC./DC.24V		2×60W													
	CXH6-10B	AC.220V		2×65W				SH05A00185_01			钢质Steel						
		AC.110V AC./DC.24V		2×60W													
	CXH6-10B2	AC.220V		2×65W			IP55				黄铜 Brass H59						
		AC.110V AC./DC.24V		2×60W													
	CXH6-1D	AC.220V		65W							钢质Steel	单层Single					
		AC.110V AC./DC.24V		60W													

? @ A/46: 1.3Iy	B C DE9,	F' GH +I., 63 24>IJ,	K L MB DE9, 37 -4: /1,	K L NO A4P, /37 34: /1,	Q R S T U00/00E 4739 W	X Y Q R Z [\\ 4/Q 45.I>3 20 P 5J 3 5J >	^ _ ` a b,J /,, 373 9/4, 1.045	c d e f C g 99/42I >8= 48 4735/IP 5J -	h i j 4>/	k l m n o I., /I >37 >5-	p q m n o I., /I >37 W4: -5J	r K s m n o I., /I >37 -W0 >63I.,
右舷灯 Starboard light	CXH1-12L	AC100-240V	LED	6W	3 n. m	112.5°	IP66	ZG15A00046	绿 Green	聚碳酸酯 Polycarbonate PC2807	黄铜 Brass H59	单层Single
		DC.24V										
	CXH1-102L	AC100-240V		2×6W							增强尼龙 Reinforced nylon PA2G30	双层Duplex
		DC.24V										
	CXH1-12PL	AC100-240V		6W							增强尼龙 Reinforced nylon PA2G30	单层Single
		DC.24V										
	CXH1-102PL	AC100-240V		2×6W							增强尼龙 Reinforced nylon PA2G30	双层Duplex
		DC.24V										
左舷灯 Port light	CXH2-12L	AC100-240V	LED	6W	3 n. m	112.5°	IP66	ZG15A00046	红 Red	聚碳酸酯 Polycarbonate PC2807	黄铜 Brass H59	单层Single
		DC.24V										
	CXH2-102L	AC100-240V		2×6W							增强尼龙 Reinforced nylon PA2G30	双层Duplex
		DC.24V										
	CXH2-12PL	AC100-240V		6W							增强尼龙 Reinforced nylon PA2G30	单层Single
		DC.24V										
	CXH2-102PL	AC100-240V		2×6W							增强尼龙 Reinforced nylon PA2G30	双层Duplex
		DC.24V										

? @ A/46: 1.3Iy ,	B C DE9,	F ' GH +I., 63 24>IJ ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U0000E 4739 W	X Y Q R Z [\ 4/Q45.I>3 20 P 5J 35J >	^ _ ` a b, J /,, 347 9/4., 1.045	c d e f C g 99/42I>8 =4847 6/IP 5J -	h i j 4>4/	k l m n o I., /Q>347 >5-	p q m n o I., /Q>347 4739: -5J	r K s m n o I., /Q>347 -W>639I.,	t u v w u b: 9>x34/3 -5J >3E9,
桅灯 Masthead light	CXH3-12L	AC100-240V	LED	8W	6 n. m	225°	IP66	ZG15A0004 6	白 White	聚碳酸酯 Polycarbonate PC2807	黄铜 Brass H59	黄铜Brass H59	单层Single
		DC.24V										双层Duplex	
	CXH3-102L	AC100-240V		2×8W								双层Duplex	
		DC.24V											
	CXH3-12PL	AC100-240V		8W								单层Single	
		DC.24V											
	CXH3-102PL	AC100-240V		2×8W								双层Duplex	
		DC.24V											
艏灯 Stern light	CXH4-12L	AC100-240V	LED	6W	3 n. m	135°	IP66	ZG15A0004 6	白 White	聚碳酸酯 Polycarbonate PC2807	黄铜 Brass H59	黄铜 Brass H59	单层Single
		DC.24V										双层Duplex	
	CXH4-102L	AC100-240V		2×6W								双层Duplex	
		DC.24V											
	CXH4-12PL	AC100-240V		6W								单层Single	
		DC.24V											
	CXH4-102PL	AC100-240V		2×6W								双层Duplex	
		DC.24V											

? @ A/46: 1.3Iy	B C DE9,	F ' GH +I., 63 24>IJ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U00V00E 4739 W	X Y Q R Z [\\ 4/Q 45.I>3 20 P 5J 3 5J >	^ _ ` a b,j /,, 347 9/4,, 1.045	c d e f C g 99/42I>3 = 48473 6/IP 5J -	h i j 4>4/	k l m n o I., /Q >347 >5-	p q m n o I., /Q >347 W4: -5J	r K s m n o I., /Q >347 -W0 >63>1.,
环照灯 All-around light	CXH6-12L	AC100-240V	LED	6W	3 n. m	360°	IP66	ZG15A00046	白 White 红 Red 绿 Green 黄 Yellow	聚碳酸酯 Polycarbonate PC2807	黄铜 Brass H59	单层Single
		DC.24V										
	CXH6-102L	AC100-240V		2×6W							增强尼龙 Reinforced nylon PA2G30	双层Duplex
		DC.24V										
	CXH6-12PL	AC100-240V		6W								单层Single
		DC.24V										
	CXH6-102PL	AC100-240V		2×6W								双层Duplex
		DC.24V										

备注Remark:
①.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；
The stern light can be used as towing light when light color is yellow.
②.LED光源寿命<17520h;
Service life of LED<17520h
③.环照灯，产品型号CXH6-11P，作为闪光灯使用时需配置航行灯控制器（白炽灯闪光控制器，型号HX0173），发光颜色绿色，通过航行灯控制器，闪光频率180~200次/分钟时，可用于“大船灯”；发光颜色红色，通过航行灯控制器，闪光频率120~140次/分钟时，可用于“危险货物积载船灯”。
All-around light, product model CXH6-11P, when used as a Flashing light, needs to be equipped with a navigation light controller (incandescent lamp flash controller HX0173). When the light in green color and flashing frequency between 180~200 times per minute, it can be applied for "Large ship light". When the light in red color and flashing frequency between 120~140 times per minute, it can be applied for " dangerous goods stowage ship light".

! /Product Description " 2#

\$ % & ' () * , - . / 0 1 2 3 4 5 6 7 8 9 : ; { [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ , . / : ; [ \ ] ^ \_ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿

? @ B C
A/46: 1.3I DE9,

VIEW ONLY

? @ A/46: 1.3I	B C DE9,	F ' GH +I., 63 24>IJ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U00/00E 4739 W	X Y Q R Z [\\ 4/Q 45.I>3 20 P 0J 3 15J>	^ _ ` a b,J /,, 347 9/4., 1.04 5	c d e f C g 99/42I>3 = 48473 6/IP 0J -	h i j 4>4/	k l m n o I., /Q >47 >5-	p q m n o I., /Q >473 W4: -0J	r K s m n o I., /Q >3 473 -W0 >63 9>.,	t u v w u b: 9>x34/3 -0J >3E9,
艏灯 Stern light	CXH4-2C	AC./DC.2 4V	白炽光源 Incandesce nt illuminant	30W	2 n. m	135°	IP55	SH05A00185 _04	白 White	聚碳酸酯 Polycarbona te PC2807	钢质 Steel 08F	钢质 Steel 08F	单层Single
	CXH4-2S			30W			IP56	SH10A00291 _02			不锈钢 Stainless steel 304	不锈钢 Stainless steel 304	
	CXH4-20S			2×30W				ZG14A00051			增强尼龙 Reinforced nylon PA2G30	不锈钢 Stainless steel 304	双层Duplex
	CXH4-21P			25W				SH15A00185 _06			增强尼龙 Reinforced nylon PA2G30	钢质 Steel 08F	--
环照灯 All-around light	CXH6-2C			30W		360°	IP55	SH05A00185 _04	白 White 红 Red 绿 Green 黄 Yellow		钢质 Steel 08F	单层Single	
	CXH6-2S			30W			IP56	SH10A00291 _02			不锈钢 Stainless steel 304		
	CXH6-20S			2×30W				ZG14A00051			增强尼龙 Reinforced nylon PA2G30		单层Single
	CXH6-21P			25W				SH15A00185 _06			增强尼龙 Reinforced nylon PA2G30		

备注Remark:

①.当艏灯更换为黄色灯光时（其他条件不变），可作为拖带灯使用。

The stern light can be used as towing light when light color is yellow.

! /Product Description " 3#

\$ % & ' () * , - . / 0 1 2 3 4 5 6 7 8 9 : ; [\] ^ _ ` { | } ~ a - i x s " * U , - , > 3 4 5 6 7 8 9 - - 2 W 5 Z - 3 y , . / , - 3 5 3 , 5 j . W

? @ A/46: 1.3Iy	B C DE9,	F' GH +I., 63 24>IJ,	K L MB DE9, 347 -4: /1,	K L NO A4P, /347 34: /1,	Q R S T U00/00E 473Q W	X Y Q R Z [\\ 4/Q45.I>3 20 P 0J 3 I5J>	^ _ ` a b, j /, , 347 9/4, 1.045	c d e f C g 99/42I >8-48 3475/IP 0J -	h i j 44/	k l m n o I., /Q >47 >5-	p q m n o I., /Q >3 4734: -0J	r K s m n o I., /Q >3 47340 >63 9>1.,	t u v w u b: 9>x34/3 -0J >3E9,
右舷灯 Starboard light	CXH1-3P	AC./DC.12V	白炽光源 Incandescent illuminant	15 W	1 n.m	112.5°	IP56	SH10A00291_03	绿 Green	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforced nylon PA2G30	不锈钢 Stainless steel 304	单层 Single
		AC./DC.24V							红 Red				
左舷灯 Port light	CXH2-3P	AC./DC.12V			2 n.m	135°							
		AC./DC.24V							白 White				
桅灯 Masthead light	CXH3-3P	AC./DC.12V		25 W	360°	白 White 红 Red 绿 Green 黄 Yellow							
		AC./DC.24V											
艉灯 Stern light	CXH4-3P	AC./DC.12V											
		AC./DC.24V											
环照灯 All-around light	CXH6-3P	AC./DC.12V											
		AC./DC.24V											

备注Remark:

①.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
The stern light can be used as towing light when light color is yellow.

! /Product Description " 4#

? @ A/46: 1. 5Iy ,	B C DE9,	F ' GH +I., 63 24>IJ ,	K L MB DE9, 3473 -4: /1,	K L NO A4P , /3473 -4: /1,	®K ~ O ° 1 -V8 7/, ±: , 51E	Q R S T U00V00E 4739 W	X Y Q R Z [\\ 4/Q45.I>3 2Q P 5J 3 5J >	^ _ ` a b,J / , , 3473 9/4., 1.045	c d e f C g 99/42I >8 = 483473 6/IP 5J -	h i j 4>/	k l m n o I., /Q >3 473, 5-	p q m n o I., /Q >3473 W4: -5J	t u v w u b: 9> x34/3 -5J > 3E9,
闪光信号灯 Flashing Signal light	CXH14	AC 100~240V	LED	Max.8W	80-200 次/分钟 times/minute	3 n. m	360°	IP66	ZG15A0004 6	白 White 红 Red 绿 Green 黄 Yellow	聚碳酸酯 Polycarbonate PC2807	增强尼龙 Reinforced nylon PA2G30	单层Single
		DC.24V											

备注Remark:

- ①.闪光信号灯频率可根据应用需求在80~100/100~120/120~140/150~160/160~180/180~200次/分钟中选取。
The frequency of the flashing signal light could be selected within 80~100/100~120/120~140/150~160/160~180/180~200times per minute according to application requirement.
- ②.发光颜色绿色,闪光频率180-200次/分钟时, 可用于"大船灯";发光颜色红色闪光频率120-140次/分钟时, 可用于"危险货物积载船灯"。
The flashing signal light can be used as a "big ship light" in green luminous color and flashing frequency between 180 to 200 times per minute. It can be used as a "dangerous goods stowage ship light" in red luminous color and flashing frequency between 120 to 140 times per minute.