



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
SH22PTB00046

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

中电科(宁波)海洋电子研究院有限公司  
China E-Tech(Ningbo)Maritime Electronics Research Institute Co.,Ltd.

地址/Address

浙江省宁波市高新区聚贤路587弄A2-17F  
15-17F A2, 587Lane Juxian Road, R&D Park, Hi-Tech Zone, Ningbo, P.R.C

产品名称/Product

无线电通信设备  
Radio-Communication Equipment  
406MHz 紧急无线电示位标(COSPAS-SARSAT)  
406 MHz EPIRB (COSPAS-SARSAT)

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- 1974年SOLAS公约及其修正案第四章第7条  
Regulations 7, Chapter IV of 1974 SOLAS Convention, as Amended
- IMO 决议 A. 662(16)《应急无线电设备的自浮释放和启动装置的性能标准》  
IMO Res. A.662(16) Performance standards for float-free release and activation arrangements for emergency radio equipment
- IMO A. 694(17)决议《作为全球海上遇险和安全系统(GMDSS)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
- IMO 决议 MSC. 36(63)《国际高速船安全规则-1994》第14条  
IMO Res.MSC.36(63) Regulation 14 of International Code of Safety for High-Speed Craft,1994
- IMO 决议 MSC. 97(73)《国际高速船安全规则-2000》第14条  
IMO Res.MSC.97(73) Regulation 14 of International Code of Safety for High-Speed Craft,2000
- IMO COMSAR Circ. 32 安装于海上人命安全公约船舶的无线电装置的全局海上遇险和安全系统的协调要求  
IMO COMSAR Circ.32 Harmonization of GMDSS requirement for radio installations on board SOLAS ships
- ITU-R M. 633-4(12/2010) 406MHz频段低极地轨道卫星运行的卫星应急位置指示无线电信标(卫星EPIRB)系统的传输特征  
ITU-R M.633-4(12/2010) Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through a satellite system in the 406 MHz band

证书有效期至/ This Certificate is valid until 2027年08月13日/ Aug. 13,2027

发证机构/ Issued by 中国船级社上海分社  
CCS Shanghai Branch

签发日期/ Date 2023年08月14日  
Aug. 14,2023

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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:P023-63633903

8. ITU-R M.690-3 (03/2015) 运行于121.5MHz和243MHz载频的紧急位置指示无线电信标 (EPIRBs) 的技术特征  
ITU-R M.690-3 (03/2015) Technical characteristics of emergency position-indicating radio beacons (EPIRBs) operating on the carrier frequencies of 121.5 MHz and 243 MHz
9. IMO 决议 MSC.471(101) 《工作在406MHz的自由浮离紧急无线电示位标 (EPIRB) 的性能标准》  
IMO Res.MSC.471(101):2019, Performance standards for float-free emergency position indicating radio beacons (EPIRBs) operating on 406 MHz
10. 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
11. IEC 61097-2: 2021 《全球海上遇险和安全系统 (GMDSS). 第2部分:COSPAS-SARSAT EPIRB工作在406MHz的卫星应急无线电示位标-操作和性能要求、测试方法和要求的试验结果》  
IEC 61097-2:2021 Global Maritime Distress and Safety System (GMDSS) -Part 2: COSPAS-SARSAT EPIRB - Satellite Emergency Position Indicating Radio Beacon Operating on 406 MHz - Operational and Performance Requirements, Methods of Testing and Required T

**用于/Intended for**

船舶/Ships

**产品明细/Product Description****406MHz 紧急无线电示位标(COSPAS-SARSAT)/406 MHz EPIRB (COSPAS-SARSAT) (M0001)**

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	406MHz紧急无线电示位标 406MHz EPIRB	
型号/Type	VEP8A	
工作频率/Operating Frequency	406.040 MHz, 121.5 MHz, 161.975/162.025MHz	MHz
输出功率/Output Power	5W±2dB, 50mW±3dB, 1W±2dB	W
工作时长/Working Hours	48	h
外壳防护等级/Degree of Protection of Enclosure	IP68	
闪光率/Rate of Flashing	26	times/min
电池类型/Battery Type	Li-SOCL2	
罗经安全距离/Compass Safe Distance	1m	
软件版本号/Software Version	2.1.1.1	
COSPAS-SARSAT型式认可证书号/COSPAS-SARSAT Certificate Number	237	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : SH22PPP20153

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : JECZ S202301005  
 试验报告日期/ Test Report Date : 2023-03-16  
 试验单位/ Laboratory: 中国电子科技集团公司第三十六研究所计量测试中心 Measure and Test Center of No.36 Research Institute of China Electronics Technology Group Corporation  
 试验单位地址/ Test Address: 浙江省嘉兴市洪兴路387号 387 Hongxing road Jiaxing Zhejiang China

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

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules:  
 认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。  
 After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

**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

COSPAS-SARSAT型式认可证书号/COSPAS-SARSAT Certificate Number:237

电池有效期五年, 电池生产日期见产品壳体标贴。

Battery expiration date is 5 years after shipping. Battery production date see the label of the product shell.

配备电池明细: 鹏辉电池有限公司生产的ER34615M型锂亚硫酰氯电池, 4节D型电池一组, 14.4V、14.5Ah。

Battery Details: Lithium-Thionyl Chloride(Li-SOCL<sub>2</sub>), Great Power E & T Corp. Ltd., type ER34615M, 4 x D-size cells, 14.4V、14.5Ah.

该产品的如下原材料/零部件业经本社检验 The following materials and components of the product were inspected by the Society: 静水压力释放器/Hydrostatic release unit

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.

产品生产地址为: 浙江省嘉兴市秀洲新区桃园路587号16号楼

The production address of the product is: Building No.16, No.587, Taoyuan Road, Xiuzhou District, Jiaxing City, Zhejiang Province.

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