



产品检测和试验机构认可证书
CERTIFICATE OF TEST AGENCY APPROVAL

兹证明本证书所述试验机构具备按照本社接受的试验标准进行本证书所列产品试验的能力和条件。

This is to certify the agency stated in the certificate is available with the ability and conditions to test the relevant products in accordance with the standards accepted by this Society.

检测和试验机构/ Test Agency

南阳防爆电气研究所有限公司
Nanyang Explosion Proof Electric Research Institute Co., Ltd

地址/Address

河南省南阳市仲景北路20号
No.20 North Zhongjing Road, Nanyang, Henan, China

认可试验范围/Items of Test Approved

- 船用隔爆型防爆电气设备验证试验
Marine flameproof electronic equipment testing and verifying
- 船用增安型防爆电气设备验证试验
Marine increased safety electronic equipment testing and verifying
- 船用正压型防爆电气设备验证试验
Marine pressurized electronic equipment testing and verifying
- 船用本质安全型防爆电气设备验证试验
Marine intrinsically safe electronic equipment testing and verifying
- 船用环境条件试验:/ Marine environmental conditions test:
 - (1). 电源变化试验/ Voltage variation test
 - (2). 绝缘试验 / Insulation test
 - (3). 高温试验 / High temperature test
 - (4). 低温试验 / Low temperature test
 - (5). 湿热试验 / Humidity test
 - (6). 外壳防护试验 / Protective enclosures test
 - (7). 盐雾试验 / Salt mist test

试验主要适用标准/ Main Test Standards

1. 详见附件
See additional pages

认可保持条件/ Maintenance Requirements of Approval

1. 产品检测和试验机构认可后, 如果检测、试验设备或试验程序、方法有较大改变, 应征得本社同意。若改变涉及或影响到检测、试验的结果时, 本社检验人员将到厂进行检查和见证有关试验, 其结果应能证实仍符合认可条件。
After test agency approval, if there are any major changes to the inspection and testing instruments or testing procedure, prior consent should be obtained from the survey office of the Society. If the changes involve or affect the results of inspection and testing, the surveyor to the Society will go to the agency to inspect or witness relevant tests and the results of the tests should be able to demonstrate compliance with the approval conditions.
2. 本证书自获得后应接受本社一次定期审核, 定期审核日为认可证书的期满之日对应的第二个周年日, 检查工作应在定期审核日的前后三个月内进行。

证书有效期至/ This Certificate is valid until 2030年02月28日 /Feb. 28, 2030

发证机构/中国船级社武汉分社
Issued by CCS Wuhan Branch

签发日期 2026年04月01日
Date Apr. 01, 2026

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, 可以向我社检验机构咨询。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: A01.

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:P026-15328935

Those who have obtained the certificate of agency approval shall receive periodical audit done by the Society. The date of periodical audit shall be the second anniversary date of the approval certificate 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 or after the above periodical audit date.

3. 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机构的检测和试验过程进行审核，以验证检测和试验过程是否符合认可条件。机构应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the inspection and testing process of the product in order to confirm whether it is in compliance with the approval conditions. The agency should provide an active cooperation and necessary for the surveyor.

4. 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，机构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 certificate, the agency should take corrective actions in a prompt and effective manner.

备注/Remarks

本证书由原产品检测和试验机构认可证书 (No. WH21PAA00007) 变更并换新。

This certificate is modified and renewed from the previous Certificate of Test Agency Approval No. WH21PAA00007.

中国船级社武汉分社

CCS Wuhan Branch

注：本证书含有附页，共2页

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

试验产品 Test of Product	试验类别 Test Category	认可试验项目 Items of Test Approved	试验适用标准 Main Test Standards
电气电子产品 Electrical and electronic products	防爆性能试验 Explosion-proof Performance test	船用隔爆型防爆电气设备验证试验 Marine flameproof electronic equipment testing and verifying	GB/T 3836.1-2021 爆炸性环境 第 1 部分: 设备通用要求 GB/T3836.1-2021<Explosive atmospheres - Part 1:Equipment-General requirements> GB/T3836.2-2021 《爆炸性环境第 2 部分: 由隔爆外壳“d”保护的的设备》 GB/T3836.2-2021<Explosive atmospheres - Part 2:Equipment protection by flameproof enclosures"d">
		船用增安型防爆电气设备验证试验 Marine increased safety electronic equipment testing and verifying	GB/T 3836.1-2021 爆炸性环境 第 1 部分: 设备通用要求 GB/T3836.1-2021<Explosive atmospheres - Part 1:Equipment-General requirements> GB/T3836.3-2021 《爆炸性环境第 3 部分: 由增安型“e”保护的的设备》 GB/T3836.3-2021<Explosive atmosphere - Part3:Equipment protection by increased safety"e">
		船用正压型防爆电气设备验证试验 Marine pressurized electronic equipment testing and verifying	GB/T 3836.1-2021 爆炸性环境 第 1 部分: 设备通用要求 GB/T3836.1-2021<Explosive atmospheres - Part 1:Equipment-General requirements> GB/T 3836.5-2021 《爆炸性环境第 5 部分: 由正压外壳“p”保护的的设备》 GB/T3836.5-2021<Explosive atmospheres - prart 5:Equipment protection by pressurized enclosure"p">
		船用本质安全型防爆电气设备验证试验 Marine intrinsically safe electronic equipment testing and verifying	GB/T 3836.1-2021 爆炸性环境 第 1 部分: 设备通用要求 GB/T3836.1-2021<Explosive atmospheres - Part 1:Equipment-General requirements> GB/T 3836.4-2021 《爆炸性环境第 4 部分: 由本质安全型“i”保护的的设备》 GB/T3836.4-2021<Explosive atmosphere - Part4:Equipment protection by intrinsic safety"i">
	性能试验 Performance test	电源变化试验 Voltage variation test	电气电子产品型式认可试验指南（2024） Guidelines for type approval testof electric and electronic products (2024)
		绝缘试验 Insulation test	
		外壳防护试验	GB/T4208-2017 《外壳防护等级（IP 代码）》

		Protective enclosures test	GB/T4208-2017<Degrees of protection provided by enclosure(IP code)> GB/T4942-2021 旋转电机整体结构的防护等级 (IP 代码) 分级 GB/T4942-2021<Degrees of protection provided by the integral design of rotating electrical machines(IP code) -Classification>
	环境试验 Environment test	低温试验 Low temperature test	GB/T2423.1-2008 《电工电子产品环境试验 第 2 部分: 试验方法 试验 A: 低温》 GB/T2423.1-2008<Environmental testing for electric and electronic products- Part 2: Test methods - Tests A:Cold>
		高温试验 High temperature	GB/T2423.2-2008 《电工电子产品环境试验第 2 部分: 试验方法试验 B: 高温》 GB/T2423.2-2008<Environmental testing for electric and electronic products- Part2:Test methods - Tests B:Dry heat>
		湿热试验 Humidity test	GB/T2423.3-2016 《环境试验第 2 部分: 试验方法试验 Cab: 恒定湿热试验》 GB/T2423.3-2016<Environmental testing - Part2:Testing method-test Cab: Damp heat Steady state> GB/T2423.4-2008《电工电子产品环境试验第 2 部分: 试验方法试验 Db 交变湿热 (12h+12h 循环)》 GB/T2423.4-2008<Environmental testing for electric and electronic products- Part 2:Test method-Test Db: Damp-heat,cyclic(12h+12h cycle)>
		盐雾试验 Saltmist test	GB/T 2423.18-2021 《环境试验 第 2 部分: 试验方法 试验 Kb: 盐雾, 交变(氯化钠溶液)》 GB/T2423.18-2021<Environmental testing - Part2:Test methods -Test Kb:Salt mist, cyclic (sodium chloride solution)> GB/T2423.17-2024 《环境试验第 2 部分:试验方法试验 Ka: 盐雾》 GB/T2423.17-2024<Envrionmental testing - Part2:Test method-Test Ka: Salt mist> JB/T4159-2013 《热带电工产品通用技术要求》 JB/T4159-2013<General technical requirements of electric products for tropical environment>