Certificate No: LR26355635TA
Issue Date: 27/07/2026
Expiry Date: 27/10/2030

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

| | |
|---|---|
| **Manufacturer** | **Discovery Energy, LLC** |
| **Address** | N7650 Lakeshore Road, Sheboygan, Wisconsin, 53083, United States |
| **Place of Production** | Discovery Energy, LLC<br>N7650 Lakeshore Road, Sheboygan, Wisconsin, 53083, United States |
| **Place of Production** | Changzhou Kohler Power Systems Ltd<br>Kohler Road, Xin Bei District, Changzhou, Jiangsu, 213032, China |
| **Type** | Marine Alternators |
| **Description** | Alternators for Marine Generating Sets -<br>Series: 4D3.1, 4E3.1, 4D3.8, 4E3.8, 4D4.2, 4E4.2, 4D5.0, 4E5.0b |
| **Trade Name** | 4D3.1, 4E3.1, 4D3.8, 4E3.8, 4D4.2, 4E4.2, 4D5.0, 4E5.0b (See Appendix) |
| **Application** | Marine/ Electrical power generation for marine use |
| **Specified Standard** | Lloyd's Register Rules and Regulations for the Classification of Ships, July 2024<br>Lloyd's Register Rules and Regulations for the Classification of Special Service Craft, July 2024 |

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**Yongchang Cai**

Electrical & Control - Senior Specialist to
Lloyd's Register Canada Limited
A member of the Lloyd's Register group

237 Brownlow Avenue, Suite 200, Dartmouth, NS.
B3B2C7, Canada

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**Ratings** See Appendix

**Other Conditions**

1. This Type Approval Certificate is for the listed alternators only.
2. Installation of this equipment for marine applications is to be in accordance with current Lloyd's Register Rules and Regulations.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Canada Limited of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** LR21291332TA-02

The Design Appraisal Document LR26355635TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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