



CERTIFICATE NUMBER 21-2157437-PDA
EFFECTIVE DATE 16-Sep-2021
EXPIRY DATE 15-Sep-2026
ABS TECHNICAL OFFICE Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

WEIDMUELLER INTERFACE GMBH & CO. KG

located at

KLINGENBERGSTRASSE 26, D-32758 DETMOLD, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Battery**

Model:
DURA ECO LA-BAT 24V 1.2AH
DURA ECO LA-BAT 24V 3.4AH
DURA ECO LA-BAT 24V 7AH
DURA ECO LA-BAT 24V 12AH
DURA ECO LA-BAT 24V 17AH

Endorsements:

Tier: **2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 15/Sep/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Efstratios Maliatsos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

WEIDMUELLER INTERFACE GMBH & CO. KG

KLINGENBERGSTRASSE 26

D-32758 DETMOLD

Germany

Telephone: +49 5231 14-292445

Fax: +49 5231 14-252445

Email: Franz-Josef.Hegener@weidmueller.de

Web: www.weidmueller.de

Tier: 2 - PDA Issued

Product: **Battery**

Model: **DURA ECO LA-BAT 24V 1.2AH**

DURA ECO LA-BAT 24V 3.4AH

DURA ECO LA-BAT 24V 7AH

DURA ECO LA-BAT 24V 12AH

DURA ECO LA-BAT 24V 17AH

Endorsements:

Intended Service:

Marine and Offshore Applications; Power Supply/Power Distribution.

Description:

Battery modules DURA ECO LA-BAT 24V xxAH consisting of 2x Genesis NP maintenance free valve-regulated lead-acid (VRLA) batteries with absorbed glass mat (AGM) technology in series.

Rating:

Battery Module Specifications:

Nominal Voltage: 24V DC;

Nominal Capacity: 1.2, 3.4, 7, 12, 17.2 Ah;

Ambient Temperature: Charge: -15...+50 °C, Discharge: -20...+60 °C.

Service Restriction:

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. The battery modules are approved for installation in non-hazardous areas. The battery modules are to be installed in enclosure with appropriate IP rating as per 4-8-3/Table 2 of the ABS MVR, based on their installed location.
3. Each battery installation/application is to be submitted for class review.
4. It is not permitted to use the battery in gas -sealed housings (ref. VdS Certificate).

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Battery cells are to be so constructed as to prevent spillage of electrolyte due to motions of the vessel at sea. Batteries are to be secured to their tray or shelves to prevent their movement.
3. Name plate of corrosion-resistant material are to be provided in an accessible position of the trays or shelves, battery box or battery locker, and are to indicate at least the information in 4-8-4/5.1.3 of the ABS MVR.
4. Where batteries are fitted for use for essential and emergency services, a maintenance schedule of such batteries is to be provided and maintained. The schedule is to include at least the information in 4-8-4/5.1.5 of the ABS MVR.
5. Battery installation and operation as per manufacturer's instructions. Battery location is to be in accordance with 4-8-4/5.3 of the ABS MVR.

Notes/Drawing/Documentation:

Drawing No. Beipack 2814330000_01_08.2021_DURA ECO LA-BAT 24V xxAH, Technical Datasheet

Drawing No. Genesis NP7-12 Data Sheet EN-NP-PDS-7-12-001_0216, Sealed Rechargeable Lead-Acid Battery Specifications

Drawing No. Genesis NP_NPX_IEC 60896 and 61056_CofC_T Hager, Certificate of Conformity with IEC Standards

Drawing No. SDS-853027-sealed-lead-acid-batteries, Safety Datasheet

Drawing No. LAB23475E, Test Report (Environmental), Weidmueller Central Laboratory, 2021-07-14

Drawing No. LAB23535E, Test Report (Environmental), Weidmueller Central Laboratory, 2021-08-31

Drawing No. DURA_ECO_LA-BAT_24V_7AH_Sheet_01, Assembly Drawing

Drawing No. DURA_ECO_LA-BAT_24V_7AH_Sheet_02, Assembly Drawing

Drawing No. DURA_ECO_LA-BAT_24V_7AH_Sheet_03, Assembly Drawing

WEIDMUELLER INTERFACE GMBH & CO. KG

KLINGENBERGSTRASSE 26

D-32758 DETMOLD

Germany

Telephone: +49 5231 14-292445

Fax: +49 5231 14-252445

Email: Franz-Josef.Hegener@weidmueller.de

Web: www.weidmueller.de

Tier: 2 - PDA Issued

Drawing No. DURA_ECO_LA-BAT_24V_7AH_Sheet_04, Assembly Drawing

Drawing No. DURA_ECO_LA-BAT_24V_7AH_Sheet_05, Assembly Drawing

Drawing No. np18-12-vds-certificate-g-112034_0515, VdS Certificate

Drawing No. np3_4-12-vds-certificate-g-106061_0517, VdS Certificate

Drawing No. np7-12-vds-certificate-g-106041_1120, VdS Certificate

Drawing No. NP1_2-12-VDS-Certificate-G-106038_0521, VdS Certificate

Drawing No. Genesis NP12-12-VDS-Certificate-G-106042_0420, VdS Certificate

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 15/Sep/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2021 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/5.9, 4-8-4/5.1, 4-8-4/5.3

2021 Mobile Offshore Units: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-3/3.7, 6-1-7/7

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA