



CERTIFICATE NUMBER  
16-LD1516808-PDA

DATE  
10 May 2016

ABS TECHNICAL OFFICE  
London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**EATON POWER QUALITY OY**

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: **Uninterruptible Power System**

Model: **9155 & 9355**


This Product Design Assessment (PDA) Certificate 16-LD1516808-PDA, dated 10/May/2016 remains valid until 09/May/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
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Roberto Alvarez  
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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**EATON POWER QUALITY OY**

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**Tier: 2 - PDA Issued**

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**Product: Uninterruptible Power System****Model: 9155 & 9355****Intended Service:**

For use on ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

**Description:**

Uninterruptible Power Supply Units (1ph &amp; 3ph) with optional internal and external battery modules.

**Rating:**

Power Ratings : 5/8/10/12/15 kVA

Input Voltage (configurable): 100V-690V, 50/60Hz

Output Voltage (configurable): 100V-690V, 50/60Hz

See attached data sheet for more details.

**Service Restriction:**

Unit Certification is not required for this product as ratings are below 50 KVA. See SVR (2016) 4-8-3/5.11.1 (a), OSV (2016) 4-8-3/5.11.1 (a), Under 90 meters Rules (2016) 4-6-4/7.3.1 (d), MODU Rules (2016) 6-1-7/9.1.1 (d), Rivers &amp; Intraoceanic Waterways Rules 4-5-4/7.1.1 (d) and HSC Rules (2016) 4-6-4 7.1.1(d).

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. Not suitable for hazardous area applications.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product..

**Notes/Drawing/Documentation:**

Drawing No. Eaton\_Marine\_9155\_9355\_15kVA\_datasheet\_rev\_B[1]

Drawing No. Eaton\_9155\_12-15kVA\_and\_9355\_8-15kVA\_CE\_DoC (1)

Drawing No. UPS\_handbook\_rev\_D\_low\_pdf

Drawing No. Eaton\_9155\_8-10\_kVA\_CE\_DoC

**Terms of Validity:**

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**STANDARDS**

**EATON POWER QUALITY OY**

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**ABS Rules:**

- Steel Vessels Rules (2016): 1-1-4/7.7, 1-1-A3&A4; 4-8-3/5.9, 4-9-8 Table 1
- Steel Vessels Under 90 Meters (295 Feet) in Length (2016): 1-1-4/7.7, 1-1-A3&A4; 4-6-4/7.19, 4-7-2 Table 1
- Mobile Offshore Drilling Units (2016): 1-1-4/9.7, 1-1-A2&A3, 6-1-1/9, 6-1-1/13; 6-1-7/9.17
- Offshore Support Vessels (2016): 1-1-4/7.7, 1-1-A3&A4; 4-8-3/5.9, 4-9-8 Table 1
- Facilities on Offshore Installations (2016): 1-1-4/9.7, 1-1-A2&A3
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2016): 1-1-4/7.7, 1-1-A3&A4; 4-5-4/7.19
- High-Speed Craft (2016): 1-1-4/11.9, 1-1-A2&A3; 4-6-4/7.19, 4-7-9 Table 9
- Steel Barge Rules (2016): 1-1-4/7.9, 1-1-A3&A4

**National:**

EN 60945: 2002, EN 62040-3: 2011, EN 62040-2:2006, EN 62040-1:2008 + EN 62040-1:2008/A1:2013

**International:**

IEC 60945 Ed 4.0: 2002, IEC 60950 Ed.2.0: 2005

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA