

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-10699

Holder of Certificate

EXIDE TECHNOLOGIES, SAS

Gennevilliers Cedex, France

This is to certify that the **Battery (Accumulator)**

with type designation(s)

MARINE & MULTIFIT, Start AGM (EM) and Dual AGM (EP) series

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application Lead-Acid batteries for use in ship and offshore Units.

Høvik, 2011-01-17 for Det Norske Veritas AS

Marit Laumann
Head of Section

* 1864*

DNV local office: Madrid

This Certificate is valid until **2015-06-30**

Sverre Eriksen

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: 20.100a Issue: October 2009 Page 1 of 2



Certificate No.: E-10699 File No.: 822.40

Job Id.: 262.1-008822-1

Product description

Valve Regulated Lead-Acid batteries for engine start and dual supply. AGM technology.

Product Code	20h Capacity (Ah)	CCA-EN (A)	Voltage (V)
EM900	42	700	12
EM1000	50	800	12
EM1100	100	925	12
EP450	50	750	12
EP900	100	720	12
EP1200	140	700	12
EP1500	180	900	12
EP2100	240	1200	12

Manufactured by

EXIDE Technologies

Acebo, s/n - Pol.Empresarium

E-50720 La Cartuja Baja Zaragoza Spain

EXIDE Technologies

3639 Joy Road Columbus, GA 31906

United States

EXIDE Technologies partner LEOCH BATTERY Corp.

Jinhu Industry Zone, Huai an city, Jiangsu

China

Application/Limitation

Batteries for use in ships and offshore Units. To be installed as descibed for valve regulated batteries in the DNV rules.

Type Approval documentation

Datasheet:

EM900 (11/06/2010), EM1000 (11/06/2010), EM1100 (11/06/2010), EP450 (28/10/2008), EP900 (11/06/2010), EP1200 (08/06/2010), EP1500 (08/06/2010), EP2100 (08/06/2010),

Test reports

ML Product Certification with DNV ORBITAL GR34 & GR86 (16/12/2010) Leoch Battery Testreport (23/12/2010)

Tests carried out

Capacity (EN 50342), Cold Cranking (EN 50342), Short Circuit (IEC 60896-21), Recharge Behaviour (IEC 60896-21), High Current Tolerance (IEC 60896-21) and Vibration Resistance (EN 50342, V3).

Marking of product

EXIDE MARINE & MULTIFIT - Product Code - Capacity (Ah) - CCA (A)

Certificate Retention Survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- · Review of type approval documentation
- · Review of possible change in design, materials and performance
- · Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at least every second year.

END OF CERTIFICATE

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