



MARINE DIVISION

Certificate number: 08412/D0 BV

File number: AP 2947

Product code: 2898I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

AUTOMATISMES ENERGIE ELECTRONIQUE SYSTEMES (AEEES)
SAINT PRIEST - FRANCE

for the type of product

BATTERY CHARGER ASSEMBLIES

Type CMV 24 series.

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 11 Sep 2014

For BUREAU VERITAS,

At BV LYON, on 11 Sep 2009,

Jean-Marc Cabuzel



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

BATTERY CHARGERS CMV 24 series:

Product Range:

Type	Charging Current IT (A)
CMV 24.40	40
CMV 24.50	50
CMV 24.60	60
CMV 24.80	80
CMV 24.100	100

Rated Voltages:

230 VAC ou 440 VAC single phase Uac supply
Ucc = 24 VDC

2. DOCUMENTS AND DRAWINGS :

In accordance with Approval File N° 33522 dated 02/02/1999 including:

Data sheets of characteristics
Drawings
Using manual

3. TEST REPORTS :

EMC test reports from **AEMC** and **AEES** and Environmental test report from **Environne'Tech** .
EMC test report from **AEMC** N°: L06252 dated 30 May 2006.

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
4.2 - BUREAU VERITAS Environmental Category, **EC Code: 31**.
4.3 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS**.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The Battery Chargers are to be manufactured, examined and tested by **A.E.E.S** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
5.2 - Arrangements shall be made for a Society's Surveyor to attend the relevant tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme (BV Mode I) has been agreed. Relevant Bureau Veritas certificate will be issued after satisfactory completion of the procedure.
5.3 - Each equipment is to be supplied with manual (s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

- Trade name.
- Date of manufacture and serial number.
- Equipment type or model identification under which it was type-tested.
- @ or \ conformity marking, as relevant.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that:

**AUTOMATISMES ENERGIE ELECTRONIQUE SYSTEMES (A.E.E.S),
259 Allée Jacques Monod, Parc Technologique
69792 SAINT PRIEST - FRANCE**

will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate n° 08412/C0 BV issued on 07/07/2006 by the Society.

*** END OF CERTIFICATE ***