



Certificate number: 06352/G0 BV

File number: AP 2768

Product code: 2898H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

ENAG

QUIMPER - FRANCE

for the type of product

BATTERY CHARGER ASSEMBLIES

Types: CDMV 16, 25, 30, 40, 50, 60, 80, 100, 120
CDTV 50, 60, 80, 100, 120, 150

Requirements:

BV Rules for the Classification of Steel Ships.

This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 15 Dec 2030**For Bureau Veritas Marine & Offshore,**

At BV SAINT-NAZAIRE, on 15 Dec 2025,

Francois LOPINOT

***This certificate was created electronically and is valid without
signature***



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 Marine & Offshore. 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 & Offshore 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 Marine & Offshore 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 electronic version is available at: <https://www.veristarpn.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=9b2rxqz3yr>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

- Product model or type designation :
CDMV, CDTV

- Product description:
Switch Mode Type Battery Charger

CDMV	CDTV	CURRENT Is
CDMV 16		16 A
CDMV 25		25 A
CDMV 30		30 A
CDMV 40		40 A
CDMV 50	CDTV 50	50 A
CDMV 60	CDTV 60	60 A
CDMV 80	CDTV 80	80 A
CDMV 100	CDTV 100	100 A
CDMV 120	CDTV 120	120 A
	CDTV 150	150 A

2. DOCUMENTS AND DRAWINGS:

Drawing CDT 24/150 ENAG N°10312 02A, dated 09/03/05.

Drawing CDM 24/120 ENAG N°10311 02A, dated 09/03/05.

3. TEST REPORTS:

Test report N° 1641, home Laboratory, dated 15/11/95 for Type tests.

Test report N° 0222, P.M.M. Laboratory, dated 19/07/95 for EMC tests.

Test report N° 0243, P.M.M. Laboratory, dated 24/07/95 for EMC tests.

Test report N° CDMV CDTV, Rev. D, ENAG Laboratory, dated 17/05/23 for Dry heat test.

Test report N° R530-20-104856-1-A, EMITECH Laboratory, dated 23/12/20 for EMC tests

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **ENAG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ENAG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **ENAG** has declared to Bureau Veritas the following production site:

ENAG
31 rue Marcel Paul
Z.I. Kerdroniou Est
29000 QUIMPER
FRANCE

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **ENAG** 's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 06352/F1 BV issued by the Society.

***** END OF CERTIFICATE *****