

Marine & Offshore

Certificate number: 47822/B0 BV

File number: AP4765 Product code: 2658H

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

Nidec Leroy Somer EPG Angoulême

ANGOULEME cedex 9 - FRANCE

for the type of product

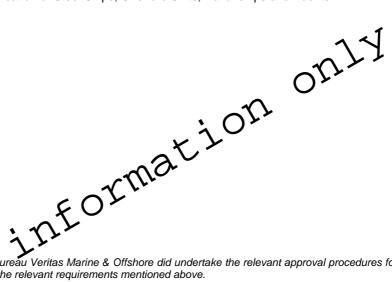
GENERATOR CONTROL AND PROTECTION UNITS

Automatic Voltage Regulator D700

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units, Naval ships and Yachts

EC Code: 33



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 combine with the relevant requirements mentioned above.

This certificate will expire on: 15 Sep 2027

For Bureau Veritas Marine & Offshore,

At BV BORDEAUX, on 15 Sep 2022

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.

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THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **D700** is an Automatic Voltage Regulator for Marine and Offshore application.

1.1 - Product's datas:

Description	Minimum value	Maximum value
Supply-(Vac)	50	277
Supply-(Vdc)	50	400
Voltage sensing (Vac) 3 phase range	0	230 or 530
Excitation current (A)	0	25
Excitation current max at 25°C (A)		50
Alternator frequency (Hz)	30	400
Voltage adjustment range (% rated V)	-10	10
Quadrature droop adjustment range (%)	0	10
Ambient Temp (°C)	-40	+65
Weight (kg)		3.09

1.2 - Software & Firmware:

Software version	Firmware version	
EasyReg Advanced	Firmware 1.XX	

4. APPLICATION / LIMITATION:

- 4.1 BUREAU VERITAS Rules for the Classification of Steel Ships, Offshore Units, Naval
- 4.2 Approval valid for ships intended to be granted with the following additional class notations: AUT-UMS, AUT-CCS, AUT-PORT, AUT-QAS, AUT-IAS and AUT-IMS.
- 4.3 BUREAU VERITAS Environmental Category, EC Code: 33.
- 4.4 The equipment fulfils the EMC requirements for installation in General Roy er Distribution Zones.
- 4.5 Only Hardware and Firmware / Software successfully tested to ether in compliance with the regulations as referred to in cover page, according to the declaration of the manufacturer are eveled by this certificate.

 4.6 - Any modification of the hardware, firmware or software the ing an impact on the product performance or functionality has
- to be validated with type testing.
- 4.7 -In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:
- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.
- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.
- Type Approval certificate has been tested according to requirements of IACS UR E10 rev8.

*** END OF CERTIFICATE ***