



TYPE APPROVAL CERTIFICATE

N. ELE189215CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Power Management Systems
<i>Type</i>	GC500R / HT-GC500R; Main switchboard Gen-Set control module GC350R / HT-GC350R; Emergency Gen-Set control module PWMR - Analog to PWM converter
<i>Applicant</i>	S.I.C.E.S. _ Società Italiana Costruzioni Elettriche Sumirago S.r.l Via Molinello, 8 B 21040 Jerago (VA) Italy
<i>Manufacturer</i>	S.I.C.E.S. _ Società Italiana Costruzioni Elettriche Sumirago S.r.l Via Molinello, 8 B 21040 Jerago (VA) Italy
<i>Testing Standard</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and Fire protection - Ch.3, Sect.6, Tab.1.

Issued in Genova, November 4 2015.

This certificate is valid until **December 24, 2020**

Valerio Bonanni

RINA Services S.p.A.

Valerio Bonanni

Genova, November 04, 2015

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TYPE APPROVAL CERTIFICATE

N. **ELE189215CS**

GC500R / HT-GC500R microprocessor based module for control and monitoring of Engines and Generators used in Power Plants

GC350R / HT-GC350R microprocessor based module for control and monitoring of Engines and Generators used in Emergency Services

PWMR module PWM to Analog signal converter_ current loop (DIN EN 50022 guide mounting)

Product Information

Data sheet GC500R doc. n. EAAD038400IT

Data sheet GC350R doc. n. EAAD038300IT

Data sheet PWMR doc. n. EAAM038200XA

Data sheet HT-GC500_DS_EN_12.2010

Data sheet HT-GC350_DS_EN_12.2010

User's Manual GC310, GC350, GC500; doc. n. EAAM0310 Rev. 04

User's Manual HT GC310, HT GC350, HT GC500 ; doc. n. EABM0310 Rev. 04

Handbook, Parallel Functions; doc. n. EAAM0199I rev. 07

Handbook GC310, GC350 and GC500 ; doc. EAAM0304EN Rev. 04

Test reports

NEMKO Report n. 159003-1R1TRFEMC (2010/ 11/ 23)

NEMKO Report n. 159003-2R1TRFEMC (2010/ 11/ 23)

General remarks:

For each installation on board a description of functionality and operation provided on the Gen-Set control modules is to be sent for our review and approval; additional information might be requested in this connection.

A failure occurring on the Gen-Set control modules shall always activate an alarm in the manned control stations.

Genova, November 04, 2015

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