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**SaierNico**  
**GROUP**



## SaierNico Group

SaierNico Electric & Automation Ltd.  
SaierNico Electric Engineering Ltd.  
SaierNico Technical Service Ltd.

Add:Dingmao Economic Development Zone,  
Zhenjiang Jiangsu, China  
Postcode:212009  
Tel:+86-511-8888 3508  
Fax:+86-511-8888 2561  
E-mail:saiernico@saiernico.com

### SaierNico Europe A/S

Add:Østergade 18,6500 Vojens,Denmark  
Tel:+45 74 54 02 22  
E-mai:info-europe@saiernico.com

### SaierNico Maritime Limited

Add:Suite 2105.21/F,Wing On Centre 111  
Connaught Road,Central Hong Kong, China  
E-mail:saiernico@saiernico.com  
Web:www.saiernico.com

### SaierNico Marine Pte.Ltd.

Add:3 TEMASEK AVENUE  
#27-02 CENTENNIAL TOWER  
Singapore 039190  
E-mail:saiernico@saiernico.com  
Web:www.saiernico.com

### Worldwide Service & Spares

Tel:+86-511-8888 3508, +45 4120 2222  
Mob:+86-157 5177 1515, +86-157 5177 1616  
E-mail:SNservice@saiernico.com  
Web:www.saiernico.com

2025.11 V1

- Marine Switchboard
- Integrated Automation
- Alternative Maritime Power
- Containerized Utility Battery



## SaierNico Group

You Sail, We Serve! ♻

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A

SaierNico Group

## + GROUP PROFILE

### *You Sail, We Serve!*

SaierNico, founded in 1994. SaierNico Group is specializing on design and manufacture series of marine HV/LV Switchboard (SWBD), Integrated Automation System (IAS), Alternative Maritime Power (AMP) for new-building & retrofit vessel, Control Console, Energy Saving System (ESS) etc. And SaierNico can carry out satisfied engineering solution for ship-repairing with spare parts to customers practically.

Currently, as the biggest maker of marine electric & automation system in China, SaierNico has 1,200+ employees (incl.180+ technicians), 50,000M<sup>3</sup> manufacture area and can supply 500+ shipsets facilities per year. SaierNico has already equipped a variety of 5,500+ ships and offshores and has also achieved an outstanding influence for international market by its 30+ years experiences widely.

Specially, SaierNico's main products- HV/LV SWBD, AMP, AMS, ESS have been equipped typical ships: Container, Gas Carrier, Tankers, PCTC, RoPax, Bulk Carrier, Offshore, AHTS etc., as 23,000TEU, 22,000TEU, 11,000TEU, 400,000VLOC, 300,000VLCC, 99,000M<sup>3</sup> VLGC, 60,000M<sup>3</sup> LPG, 10,800CEU, F450, P82, 8,000HP, 5,000T Lift etc., and it is concerning shipowners separately: COSCO Shipping, Maersk, C.C., MSC, Evergreen, YangMing, OOCL, X-Press, EPS, Vale, Grimaldi, HMM, Stolt, Dynacom, Capital, Hafnia, Finnlines, Stena, DFDS, CSL, Zodiac, etc.

"You Sail, We Serve!" is always enlightening SaierNico to create value for customers with a global service network!



LV Switchboard Workshop



AMP Workshop



Containerized Utility Battery Workshop



Console & Other Electrical Products Workshop

  
**500<sup>+</sup>**  
Shipsets Of Products /Year

  
**1,200<sup>+</sup>**  
Employees

  
**5,500<sup>+</sup>** Ships  
And Offshore Engineerings

  
**50,000<sup>+</sup>** m<sup>2</sup>  
Workshop



HV Switchboard Workshop



Copper Strip Workshop



Sheet Metal Workshop

# + PRODUCT INTRODUCTION

## Switchboard

- Hi-Nico High Voltage Switchboard
- iSN-MSB Low Voltage Switchboard
- New Generation Marine Power Supply and Distribution System
- IMPS Insulation Monitoring and Fault Location System
- IMCC Motor Management and Control System
- ESS Energy Saving System
- Various Electrical Products



Hi-Nico  
High Voltage Switchboard

iSN-MSB  
Low Voltage Switchboard

Certificate Authority:



Functions:

- HV Main Switchboard
- HV Distribution Switchboard
- HV Motor Control Center
- HV Shore Connection Switchboard
- HV Bow Thruster Starter
- etc.

Characteristic:

|                                           |         |                        |
|-------------------------------------------|---------|------------------------|
| Rated voltage                             | kV      | 3- 12                  |
| Rated current                             | A       | 630...2500             |
| Rated short-time withstand current        | kA 4s   | 31.5/40                |
| Rated peak withstand current              | kA      | 82/104                 |
| Rated power frequency withstand voltage   | kV 1min | 42                     |
| Rated lightning impulse withstand voltage | kV      | 75                     |
| Internal arc fault current                | kA 1s   | AFLR 31.5/40           |
| Degrees of protection                     |         | IP 42                  |
| Loss of service continuity category       |         | LSC2B                  |
| Dimension WxHxD (Including base)          | mm      | 650/800/1000x2658x1530 |

Sample Screens:



System Composition:



- 01 Insulation Monitoring and Fault Location
- 02 Motor Management and Control
- 03 Energy Monitoring and Analysis
- 04 Energy Efficiency Statistics
- 05 Fault Diagnosis
- 06 Power Management System
- 07 Busbar Temperature Monitoring
- 08 Arc Flash Detecting
- 09 Switchboard Maintenance Plan



## IMPS Insulation Monitoring and Fault Location System

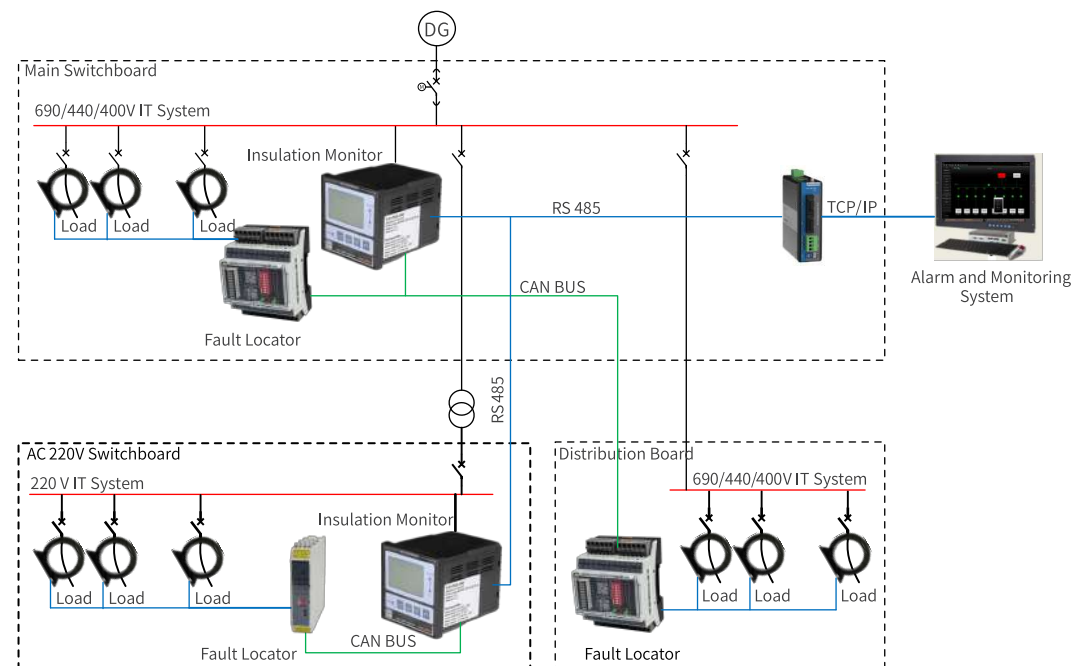
Insulation monitoring devices and fault Locator are used to monitor the insulation status of ship IT systems to ground and locate fault branch.



### Features:

- 01 Insulation value range: 0~10MΩ
- 02 Insulation measurement deviation: ≤15%
- 03 Insulation monitoring response time: ≤2S
- 04 Fault location resistance: ≤25k Ω
- 05 Fault location response time: ≤30S
- 06 RS-485 and MODBUS slave protocol
- 07 Display on the monitoring panel with all the fault locators

### Type Approved Certificate: CCS



## IMCC Intelligent Motor Management and Control System

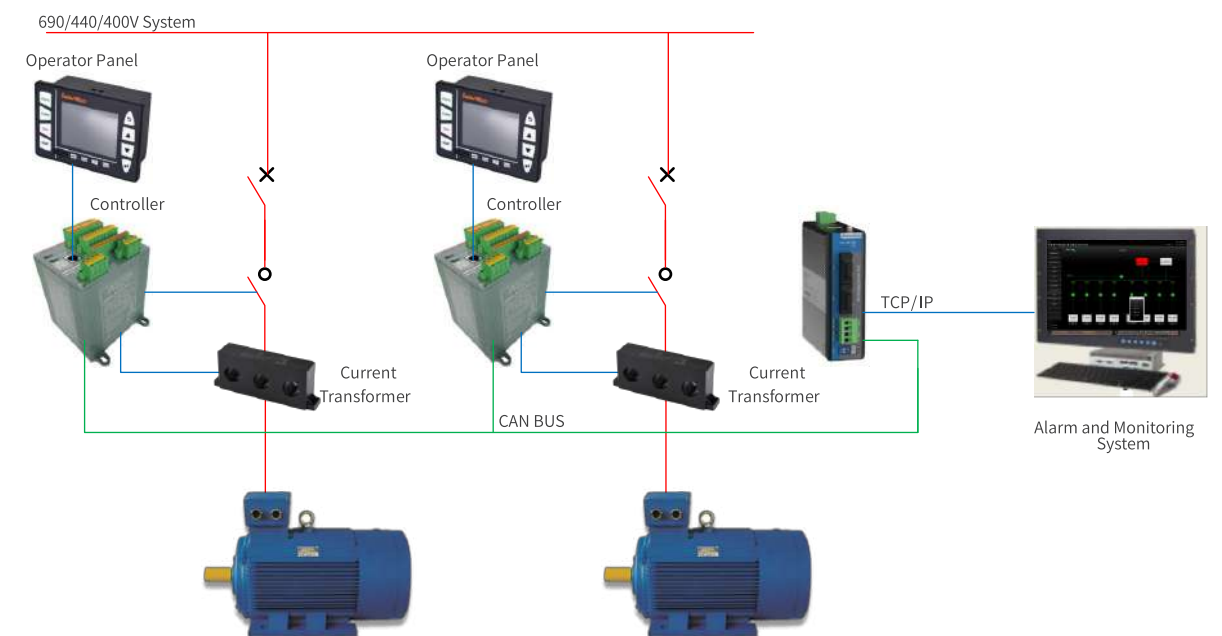
The Intelligent Motor Management and Control System is used for the protection and control of motors and fans.



### Features:

- 01 Easy configuration based on programmable IO module.
- 02 Various start method selectable: DOL, Star-Delta, Forward-Reverse, High-Low speed.
- 03 Measurement: Three phase current, Voltage, Power factor etc.
- 04 Protection: Phase loss, Three phase imbalance, Thermal overload etc.
- 05 Sequential start when power restoration, Standby pump auto start function etc.
- 06 Redundant CAN bus.
- 07 Modbus TCP Ethernet port or Profibus DP slave port (Optional)
- 08 One key upload/download parameter settings, easy for maintenance/replacement

### Type Approved Certificate: DNV/CCS



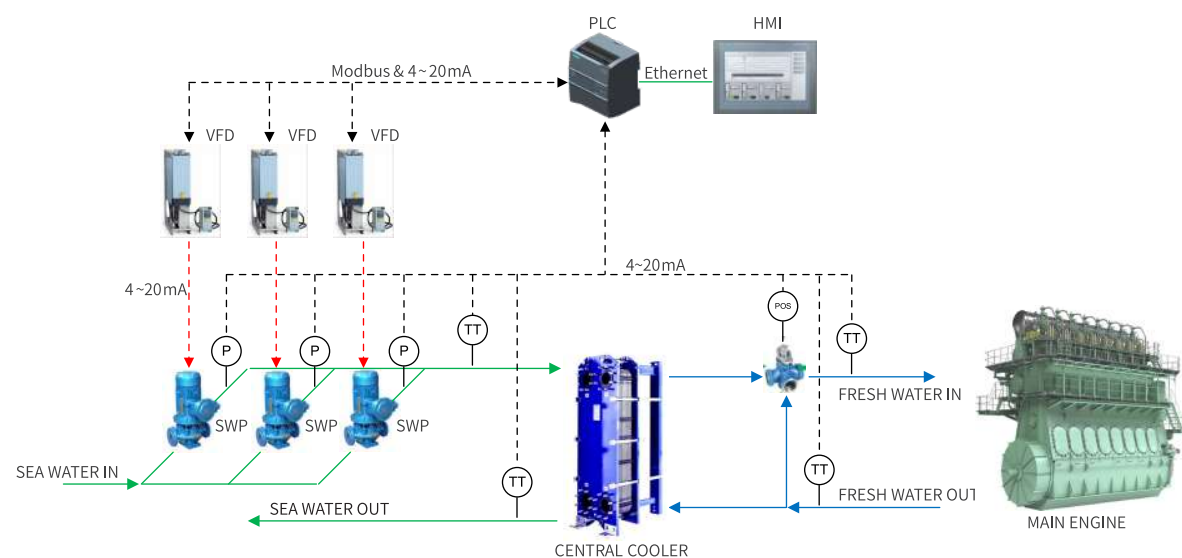
# ESS

## Energy Saving System

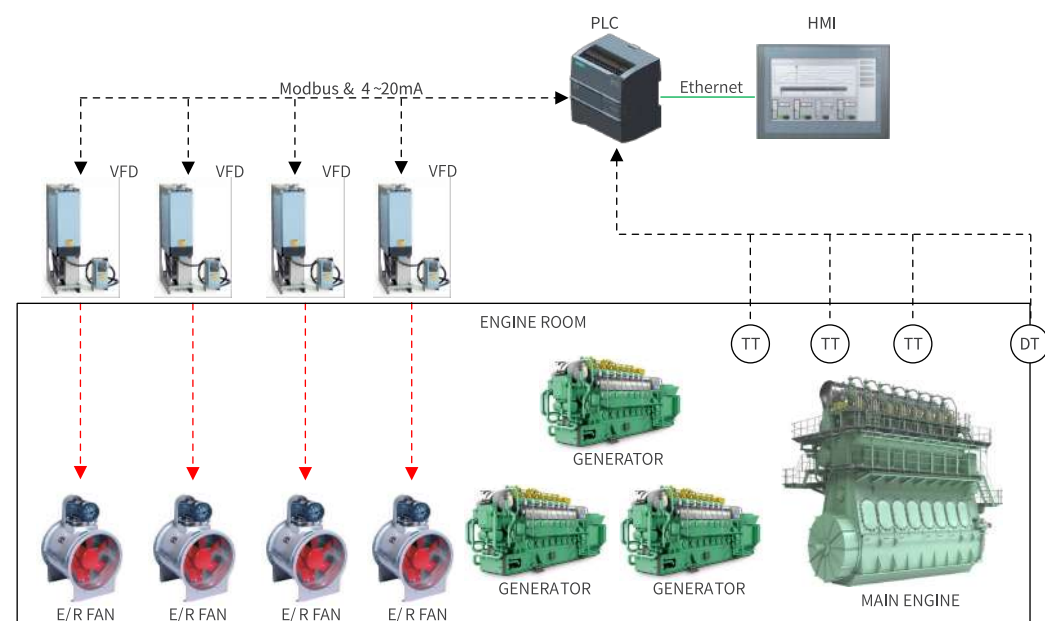
### Characteristic

Energy Saving System can optimize pump and fan speed according to current condition to save energy. It also helps to improve ship's Energy Efficiency Design Index (EEDI) and reduce carbon emissions.

### Sea Water Cooling System



### Engine Room Ventilation



## Various Electrical Products



Charging &  
Discharging Panel



Group Starter



Active Power  
Filter Cabinet



Shore Power  
Receiving Panel



Distribution Box



Shore  
Connection Box



External Power  
Supply Box



Individual Starter



Electric Test Panel



Shore Connection  
Socket Box



Push  
Button Box



Alarm Light Column

## + PRODUCT INTRODUCTION

# Automation

- IAS Integrated Automation System
- Ship-to-Shore Data Transfer System
- Cyber Security
- Control Console
- Marine Electronic Product

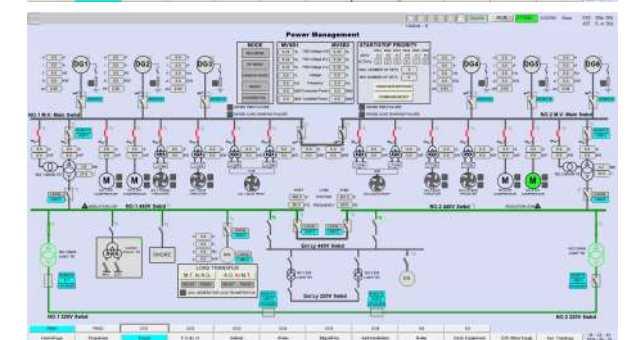
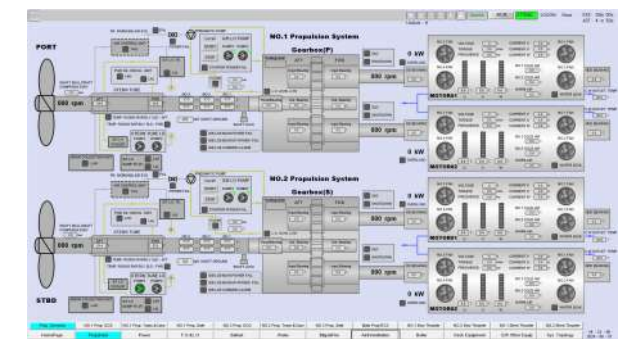
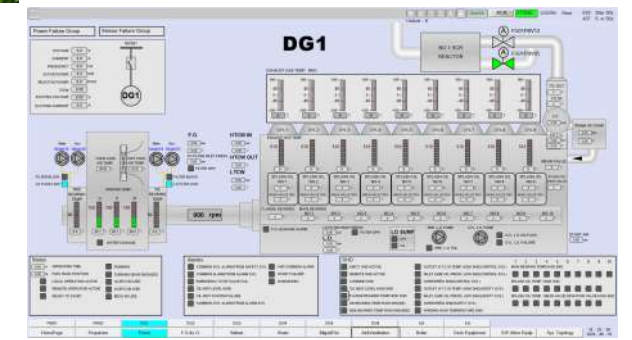
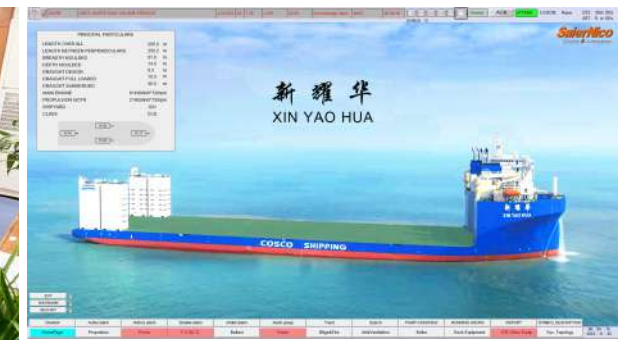
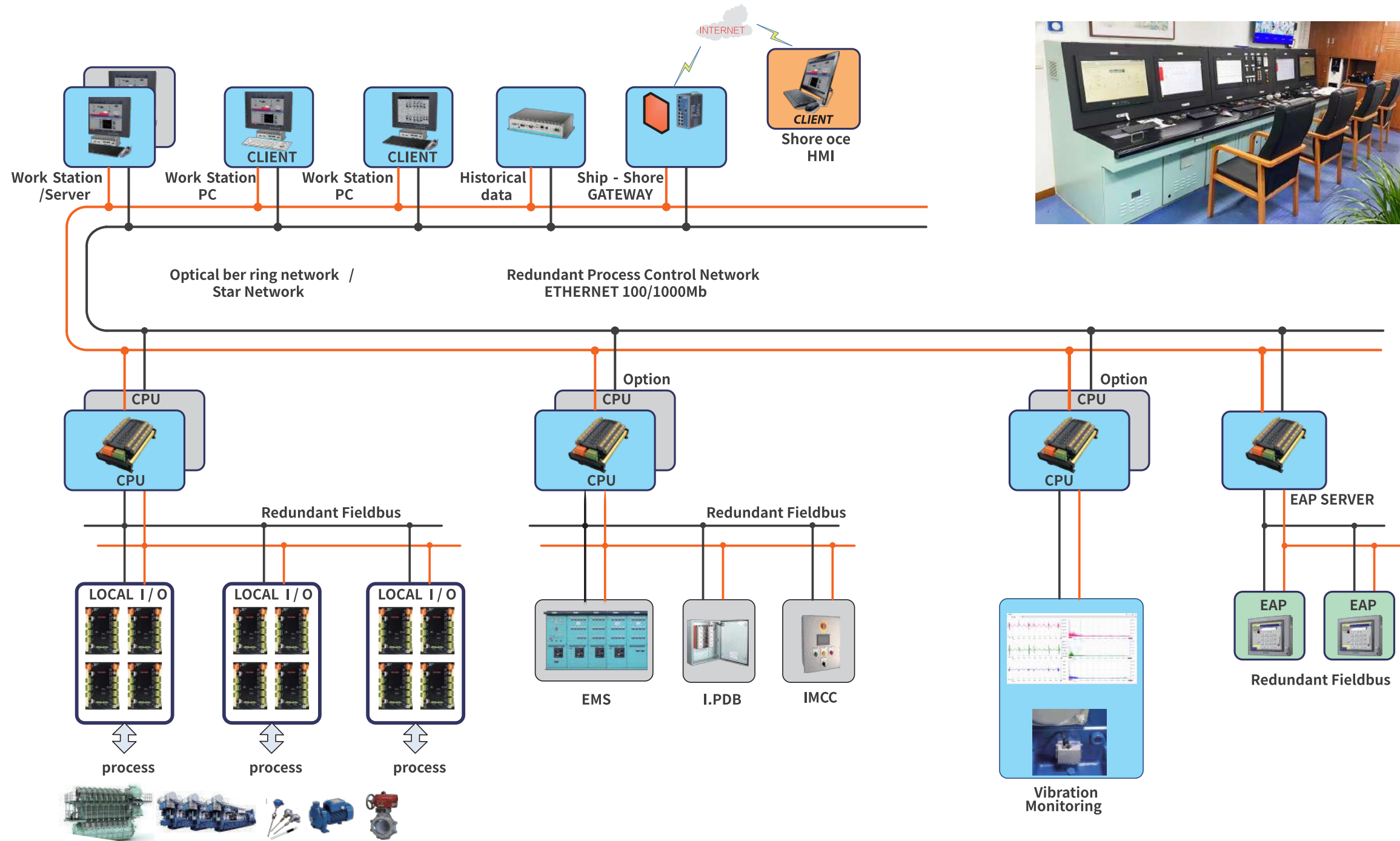


# IAS

## Integrated Automation System

The following subsystems can be integrated:

- 01 Insulation Monitoring and Fault Location
- 02 Motor Management and Control
- 03 Energy Monitoring and Analysis
- 04 Energy Efficiency Statistics
- 05 Fault Diagnosis
- 06 Power Management System
- 07 Busbar Temperature Monitoring

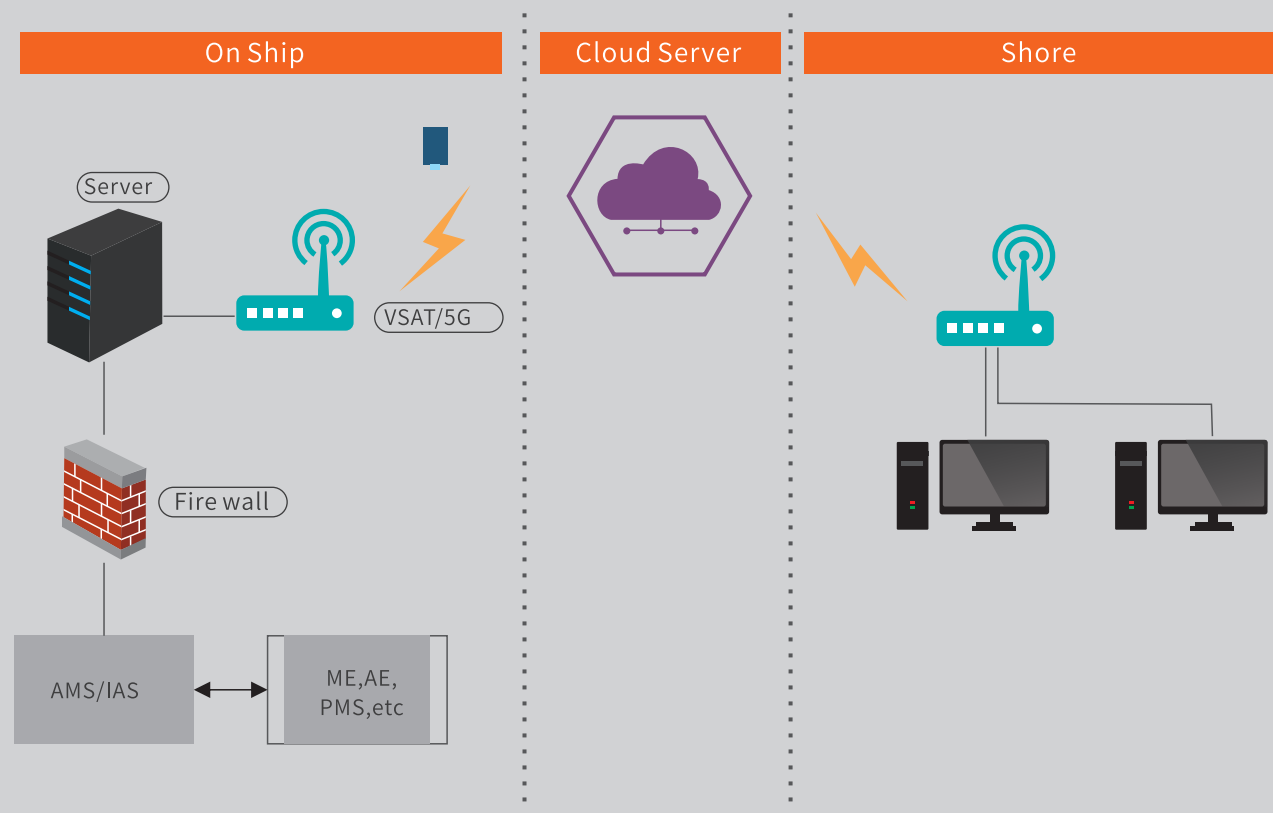


## Ship-to-Shore Data Transfer System

By means of deploying relevant equipment on the ship and by shore end, combining ship integrated automation system, we realize digitalized operation and management with reduced cost and increased efficiency. and a more accurate and effective digitalized management of the entire fleet from the onshore base, improving the level of management and ensuring ship operation safety.

## Cyber Security

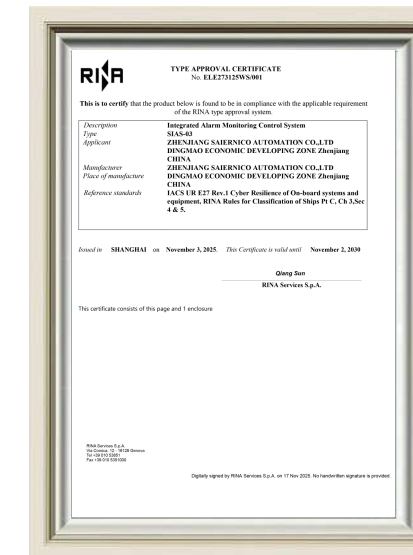
- 01 Passed function test of UR E27 by BV and RINA Class;
- 02 Passed ABS Cyber Safety Services for Equipment Manufacturers. obtain Cyber Security-CS System PDA certificate;
- 03 Submitted application of Cyber Security to DNV,CCS and LR;
- 04 Cable management system, L.V. Main Switchboard, Navigation Light Controller and etc. passed low risk certificate by CCS Class.



ABS Cyber Safety Certificate



Cyber Security-CS System PDA Certificate



RINA Cyber Security Certificate

## Control Console

- 01 Ergonomic design, easy and comfortable for operation.
- 02 Meet the specifications, modular design and production.
- 03 According to the different characteristics of vessel operation and user habits, provide multiple layout options.



## Marine Electronic Product

### Modules used for IAMCS



Marine Standard  
Data Processor



Marine Standard  
Protocol Processor



24-Channel Relay Output

### Modules used for Bow Thruster Systems



Remote Control Panel for  
Bridge Console



Remote Control Panel for  
PORT or STBD Wing



Pitch Calibration Module

### Modules used for Control Console & Other Products



Navigation & Signal  
Light Controller



Alarm Panel



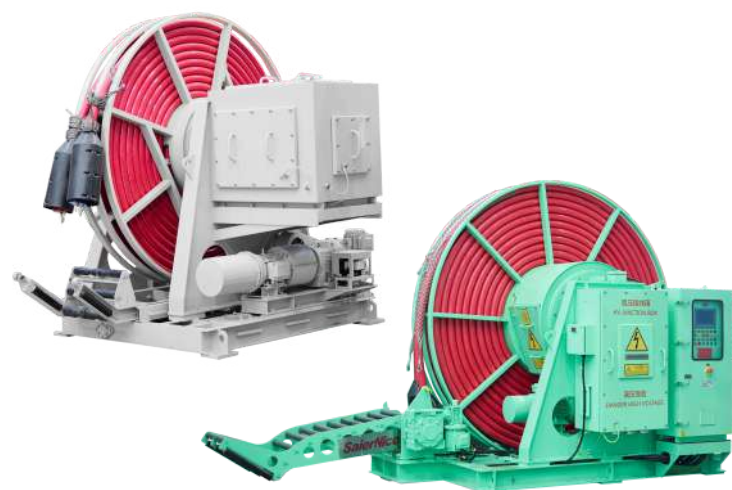
Window Heating  
Controller

## + PRODUCT INTRODUCTION

### AMP

- AMP Cable Reel
- High Voltage Socket Box
- High Voltage Shore Connection Switchboard
- AMP Turnkey Solutions





### AMP Cable Reel

#### Technical features:

|                                    |       |           |
|------------------------------------|-------|-----------|
| Rated voltage                      | kV    | Up to 12  |
| Rated frequency                    | Hz    | 50/60     |
| Rated current                      | A     | Up to 700 |
| Rated short-time withstand current | kA 1s | 16        |
| Rated peak withstand current       | kA    | 40        |
| Internal arc classification IAC    | kA 1s | AFLR 31.5 |
| Degrees of protection              | IP    | 56        |

#### Advantages:

- Gear transmission Magnetic coupling, no contact, no friction, no oil, maintenance free.
- Frequency converter, constantly, smoothly.
- Double brakes, more safety and reliability.
- External mounted type slip ring, easy for inspection and maintenance.



### Weatherproof Housing:

- Physical protected against heavy seas and mechanical damages.
- Lighting, Heating and Dehumidify unit inside to provide better working/storage environment.



## AMP Turnkey Solutions

### Products

- AMP Container
- Cable reel
- Switchboard
- Socket box

### Design & Engineering

- Inspection onboard
- Drawing and system analysis
- Class approved by DNV, BV, ABS, CCS, LR, RINA, NK etc
- 2~3 months delivery

### Service

- Global service network
- Spare parts provide

### Installation & Commissioning

- Professional on site team
- Installation, cable laying
- Power on commissioning

**SaierNico**  
Electric & Automation

### Manufacture

- AMP workshop
- Test facility
- FAT
- 300 sets/year capacity



AMP  
Alternative Maritime Power



AMP Container



High Voltage Shore Connection Switchboard



AMP Cable Reel



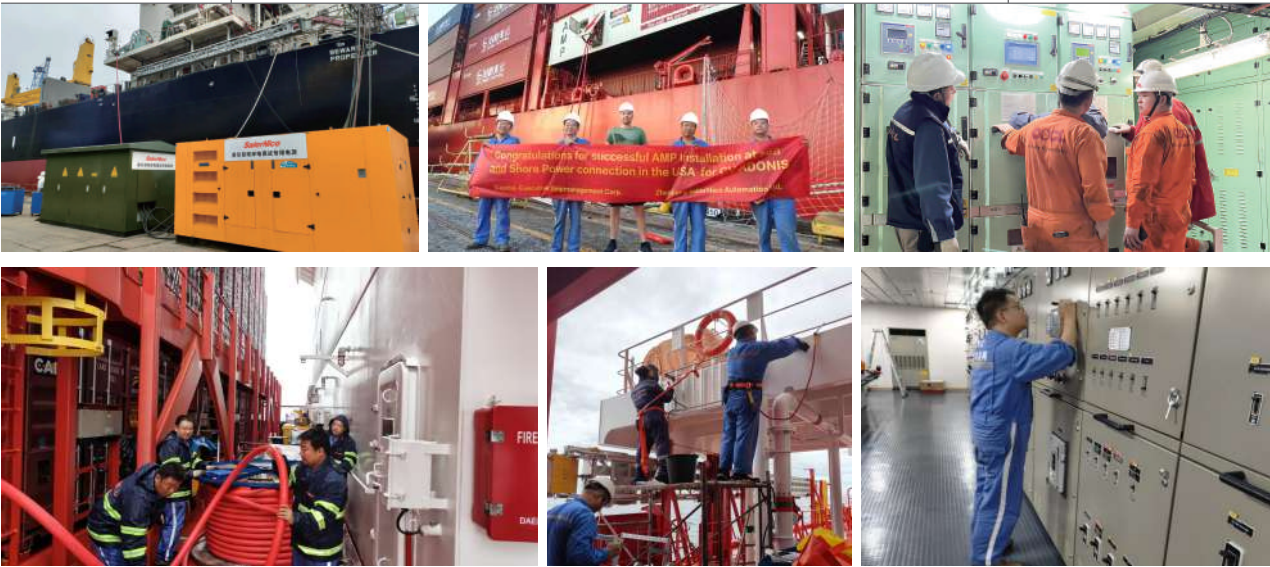
Weather Proof Housing

Satisfaction:

- 01 IEC/ISO/IEEE 80005-1: 2022 Utility connections in port-Part1: High Voltage Shore Connection (HVSC) Systems-General requirements.
- 02 IEC 62271-200: 2021 High-voltage switchgear and controlgear-Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV.
- 03 IEC 62613-2: 2016 Plugs, socket-outlets and ship couplers for high-voltage shore connection( HVSC) systems Part 2.
- 04 Class approval: ABS, CCS, DNV, LR, RINA, BV, NK etc.

| Vessel Type  | Customer                                                                                                                                                         | Ship Sets (940+) |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Container    | CMA CGM, Maersk, MSC, Hapag-Lloyd, OOCL, Everygreen, Yang Ming, Capital, PIL, X-PRESS, Zhonggu Logistics, ANTONG, SINOLINES, DANAOS.....                         | 553              |
| PCTC,RoPax   | Grimaldi, Zodiac, Finlines, Stena, MOBY, WALLENIOUS, ANJI, BYD, KINGFOUR....                                                                                     | 142              |
| Tanker       | Captial, Athenian, TERNTANK, Furetank, TARBIT, PG TANKERS ....                                                                                                   | 77               |
| Bulk Carrier | CSL, COSCO Shipping, Shanghai Huayuan, Changhang Freight, Fujian Dongyi, Baosteel , Zhejiang Shipping, Ningbo Marine, Shanghai Merchants Minghua,Zhejiang Fuxing | 145              |
| Cruise       | BLUE DREAM, CM Viking Cruises, Adora Cruises                                                                                                                     | 3                |

Socket Box



+  
**PRODUCT  
INTRODUCTION**

**PEMS & DC Switchboard**

- DC Switchboard
- Power and Energy Management System (PEMS)

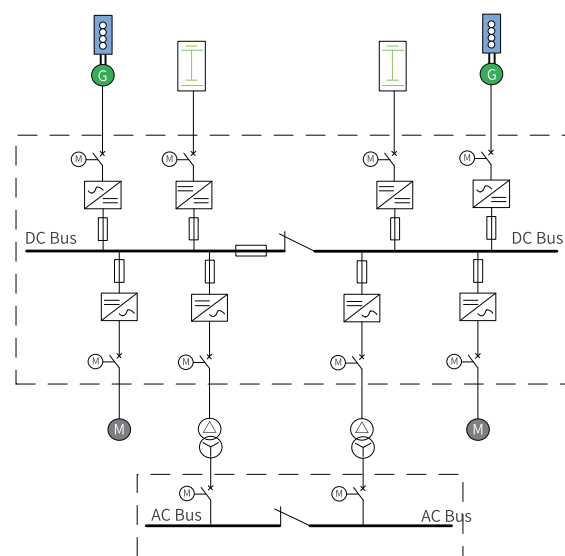


## DC Switchboard

DC Switchboard board is the core equipment of its electric control, converting the power generated by generators, batteries, super capacitors, photovoltaic energy and other new green energy into DC voltage through rectifiers.

### Main Advantages:

- 01 Applicable to the fields of ship and ocean engineering
- 02 A combination of fast fusing, power module and disconnecter/breaker provide comprehensive safety protection for the DC system
- 03 Optimised cabinet frame structure design can be flexibly arranged based on the ship cabin space
- 04 Emission reduction, vibration and noise reduction
- 05 Friendly human-computer interaction is in line with the operator's usage habits

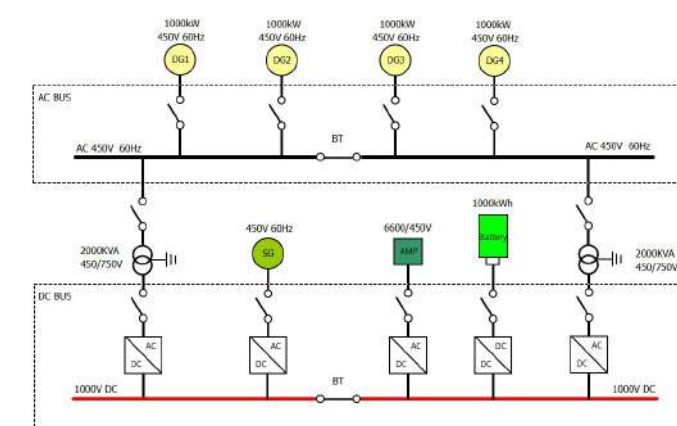
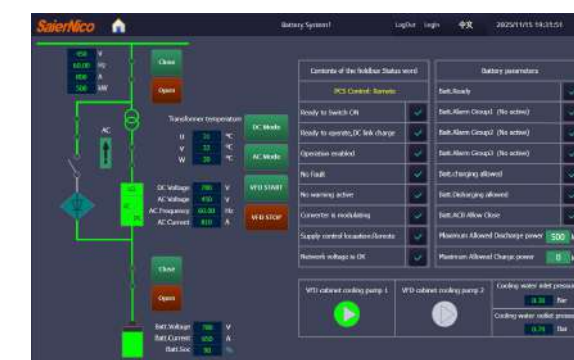
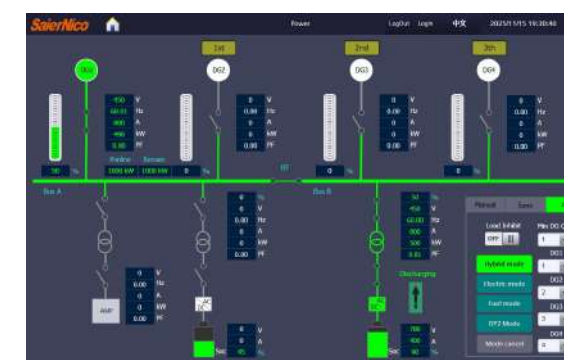


## Power and Energy Management System PEMS

As the core of a vessel's power and control system, the Power and Energy Management System (PEMS) regulates, dispatches, and optimizes the startup, synchronization, disconnection, and stopping of all on-board power supply units based on load levels. It ensures the optimized use, safe control, and management of various power supply units in a safe, energy-efficient, and environmentally friendly manner.

### Product Features:

- 01 Integrated PMS/EMS platform management and control, enabling seamless data sharing
- 02 Flexible multi-mode control, accurately meeting customized requirements
- 03 Intelligent coordination of power sources, improving system operating efficiency
- 04 Dynamic peak shaving and valley filling, optimizing energy resource allocation
- 05 Rapid response to load fluctuations, ensuring operational stability
- 06 Refined battery charging and discharging management, extending service life
- 07 Fast power limiting function, enhancing safety protection





## REFERENCE

- Reference
- Shipowners
- Shipyards
- Spare parts, after-sales service outlets



### Container

22,000TEU/15,000TEU/14,000TEU/11,430TEU/11,000TEU/7,000TEU/5,900/  
5,500TEU/4,600TEU3,000TEU/2,800TEU/2,700TEUTEU/2,500TEU/2,400TEU/  
2,200TEU1,900TEU/1,800TEU/1,700TEU/1,250TEU  
910RFEU/600FEU  
1,800TEU Container Vessel

### LNG/LPG

79,800m³ LNG  
93,000m³/86,000m³/85,000m³/84,000m³ VLGC  
40,000m³/36,000m³/30,000m³/27,500m³ VLGC  
22,000m³/21,000m³/20,000m³ VLGC

### Wind Offshore

3,200T/2,500T/1,800T/1,600T/1,200T Wind Power Installation Vessel  
5,000T/4,000T/3,600T/3,000T Crane Vessel

### PCTC

9,000CEU PCTC (Grimaldi)  
7,600CEU DUAL FUEL PCTC (Anji COSCO Haite )  
7,000CEU DUAL FUEL PCTC (ZODIAC)  
3,800CEU PCTC (Anji COSCO Haite )  
9,200CEU PCTC (BYD)

### Bulk Carrier

400,000DWT/325,000DWT/261,000DWT VLOC  
280,000/180,000DWT/118,000DWT Bulk Vessel  
82,000DWT/64,000DWT/38,000DWT Bulk Vessel

### Offshore Platform

SBM MPF A FPSO P82 FPSO  
Lufeng 12-3 Oilfield FPSO Offshore Oil 163  
Madura Floating Production Unit Bayan Platform  
P82 FPSO  
Lufeng 12-3 Oilfield FPSO  
SBM MPF A FPSO

### Hopper Dredger

18,000/13,800/13,280m³ Hopper Dredger  
9,000m³/6,000m³/4,500m³/4,200m³/3,800m³ Hopper Dredger

### RO-RO

Stena Newmax RORO  
5,800LM RORO ( Finnlines )  
7,800LM/6,700LM/2,500LM RORO  
11,300DWT RORO/6,500DWT Conro Vessel

### Oil & Chemical Tanker

319,000DWT/300,000DWT/163,000DWT Large Crude Oil Tanker  
114,000DWT/109,999DWT Product Oil/Chemical Tanker  
83,500DWT Bulk & Oil Integrated Vessel  
75,000/55,000DWT/15,000DWT/11,500T/9,200T/3,600T Chemical Vessel  
Polar Condensate / Chemical Ship

### Offshore Engineering Vessel

15,000HP/12,000HP/8,000HP/5,000HP/4,000HP AHTSV  
VS4616/VS4612/65M/64M AHTSV  
87m/80.6m/78m/70m PSV  
VS483/VS4408 PSV

### ROPAX

2,800PAX Cruise Ferry (Viking Line) TL 866P Ropax (TT-Line)  
1,800P Ropax (Algeria) 2,500P/3,800M Ropax (Moby)  
5,800M PCTC (WALLENIUS) 3,100M PCTC (STENA)  
2,000P/3,000M Ropax

### Scientific Research Vessel

Xuelong 2 Polar Science investigates icebreakers  
Jiaolong Manned Submersible Support Mother Ship  
3,800T New Geophysical Integrated Science Research Ship  
Zhuhai Cloud Unmanned System Mothership

Typical  
Refernce



# Our Customers

600+

Has served more than  
600 well-known enterprises

## Shipowners



## Shipyards





#### SaierNico Electric & Automation Ltd

Add:Dingmao Economic Development Zone,  
Zhenjiang Jiangsu, China  
Postcode: 212009  
Tel:+86-511-8888 3508  
Fax:+86-511-8888 2561  
E-mail:saiernico@saiernico.com

#### SaierNico Europe A/S

Add:Østergade 18,6500 Vojens,Denmark  
Tel:+45 74 54 02 22  
E-mail:info-europe@saiernico.com

#### SaierNico Maritime Limited

Add:Suite 2105.21/F,Wing On Centre 111  
Connaught Road,Central Hong Kong, China  
E-mail:saiernico@saiernico.com  
Web:www.saiernico.com

#### SaierNico Marine Pte. Ltd.

Add:3 TEMASEK AVENUE  
#27-02 CENTENNIAL TOWER  
Singapore 039190  
E-mail:saiernico@saiernico.com  
Web:www.saiernico.com

#### Eekels Technology B.V.

Add:A. Plesmanlaan 2, 9615 TH Kolham, The Netherlands  
Tel:+31 8879 917 99  
E-mail:service@eekels.com  
Web:www.eekels.com

#### NG Electric LLC

Add:135 NE 194th ST. Shoreline, Washington,  
98155, U.S.A.  
Tel:+1 206 354 2235, +1 206 307 7494  
E-mail:ngelectricllc@outlook.com

#### Marine Service and Shipping Ltd.

Add:Cevizli Mahallesi Ritim Istanbul, B Block No. 44,  
Ofis:231, 34846 Maltepe,  
Istanbul Turkey  
Tel:+90 2169 123 445  
E-mail:technical@msasltd.com  
Web:www.msasltd.com

#### Automated Variable Controls Inc.

Add:2 – 1005 Heenan Crt, Lucan, ON, N0M 2J0, Canada  
Tel.: +519-870-0421  
E-mail: Dan@avcontrols.ca  
Web: www.avcontrols.ca

#### Multi Automation & Control Co., Ltd.

Add:No. 30, Houping Rd., Qianzhen Dist., Kaohsiung City  
806, Taiwan, China  
Tel:+886 978 871 725  
E-mail:gaservice.ga@gmail.com  
Web:www.globalautomation.com.tw

#### Urecon Automation Pte Ltd

Add:7 Soon Lee Street #02-06/07,iSpace  
Singapore 627608  
Tel:+65 6569 5298  
E-mail:urecon@urecon.com.sg  
Web:https://urecon.sg

#### EJ Electrical engineering contractors

Add:Unit 1 / 8 Redemptora Road,HENDERSON WA 6166,Australia  
Tel: 08 9437 1300  
E-mail: matthew@ejelectrical.com.au  
Web: www.ejelectrical.com.au

#### KM OceanCare Co., Ltd.

Add:No.418 BISC,85 Namhangseo-ro,Yeongdo-gu, Korea  
Tel:+82 051-710-7390  
E-mail:bhk@oceancare.co.kr  
Web:www.oceancare.co.kr

#### BRAZIL

METALOCK BRASIL  
Tel:+55-13-32264686  
Fax:+55-13-32264680  
E-mail:santos@metalock.com.br  
Internet: www.metalock.com.br

#### SOUTH AFRICA

LH MARTHINUSEN CAPE TOWN  
Tel:+27 215558660  
Fax:+27215558686  
E-mail:andrem@lhmct.co.za  
Internet:www.lhm.co.za

#### SINGAPORE

CYCLECT SINGAPORE PTE LTD  
Tel:+65-6863 6877  
Fax:+65-6863 6260  
E-mail:info@cyclelect.com.sg  
Internet:www.cyclelect.com.sg

#### UNITED STATES

SEABOARD CONTROLS, INC  
Tel:+1-281-3288620  
Fax:+1-281-328 7832  
E-mail:service.sales@seaboarcontrols.com  
Internet: www.seaboarcontrols.com

#### KOREA

DONG SHIN ELECTRIC &ENG'CO.,LTD  
Tel:+82 51418 7880  
Fax:+82 51418 7885  
Email:sales@sanil.co.kr  
Internet:www.dsele.com

📍 Headquarter and Subsidiaries

🌐 Global Service Contracted Partners

🌐 International Ship Engineering Service Assication(ISES) Cooperation Partners



# SaierNico Technical Service Ltd.

Committed to providing life-cycle technical service support for domestic and international clients,

## 01 Maintenance Service

### Six Service Zones

- Establish a global after-sales service system Since 2001
- Co-operating with technical-service partners on every continent
- Member of ISES (International Ship Engineering Service Association)
- Life Cycle Service Assurance
- 140+ after-sales & maintenance service engineers
- Upgrade and Retrofit service for vessels in operation



### Service Content

#### Shore-Power Connection & Commissioning

- Shore power connection service
- Shore-power equipment maintenance

#### Retrofit

- Switchboard upgrades
- Automation system retrofits
- Shore-power system retrofits

#### Troubleshooting Service

- power distribution system
- automated system
- shore power system

#### Software Remote Service

- Automated system and EGCS
- Remote technical support service

#### Spare-Parts

- Provide Marine electrical accessories
- Provide alternative solutions for spare parts

## 02 Training Center

### Training Center Overview

SaierNico Training Center is built around real shipboard systems and a senior instructor team. It delivers immersive technical training in four core areas: marine high-&-low-voltage switchboards, Alarm Monitor Systems, Alternative Marine Power, and Energy-Saving Systems—to provide customers with an immersive learning experience.

- Theoretical Knowledge Training**  
Systematic lectures that give cadets a clear, top-down understanding of product architecture, functions and operating logic, dramatically reducing the familiarization period once on board.
- Practical Operation Simulation Training**  
Full-scale mock-ups replicate the actual electrical equipment, allowing cadets to repeat critical operations—start/stop, paralleling, fault isolation—until responses become second nature.
- Advance Maintenance Training**  
Site trainer shows crews how to use SaierNico's self-diagnostic tools to locate root causes and perform routine repairs, cutting downtime to the minimum.
- Assessment & Certification**  
We cover the majority of typical failure cases; participants who pass the exam receive an official SaierNico competency certificate—giving ship-owners a reliable hiring benchmark and giving seaman a proven career path.

**Ultimate Goal** Every training session become an engine for clients to "increase efficiency at cost" - shorten commissioning period ,lower the cost of maintenance,reduce unplanned suspend voyage

### Core Training Equipment

#### High- & Low-Voltage Switchboards

#### Alarm Monitor Systems

#### Alternative Marine Power

#### Energy-Saving Systems