

03 Typical Projects

No.	Project	Shipset	Shipowner/Shipyard	Scope of Supply	Class
1	7,000TEU Container Vessel	16	XPRESS SHIPPING (PTE) LTD(Singapore)/ Shanghai Waigaoqiao Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System	ABS
2	5,500TEU Container Vessel	10	CMA CGM/Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	BV
3	75,000DWT Oil Tanker	2	DYNACOM TANKERS MANAGEMENT LTD(Greece)/ Jiangsu New Yangzi Shipbuilding Co., Ltd.	Insulation Monitoring and Fault Location System	ABS
4	10,600DWT Oil & Chemical Tanker	2	PRITCHARD-GORDONTANKERS LTD(UK)/ China Merchants Jinling Dingheng Shipbuilding (Yangzhou) Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	DNV
5	950TEU Container Vessel	8	Sea Consortium Pte.Ltd./ Yangzhou Dayang Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System	DNV
6	2,500TEU Container Vessel	6	Evergreen Marine co., LTD/ Jiangnan Shipyard (Group) Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	NK
7	31,200DWT Bulk Vessel	1	Algoma central corporation (Canada) / Jiangsu New Yangzijiang Shipbuilding Co.,Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	LR
8	7,800CEU PCTC	3	Anji Shipping Co., Ltd./ Jiangnan Shipbuilding (Group) Co., Ltd.	Insulation Monitoring and Fault Location System	DNV
9	10,000kW Guardian Rescue Ship	1	Branch of China Petroleum & Chemical Corporation (Sinopec)/Wuchang Shipbuilding Industry Group Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
10	5,000T Crane Vessel	1	China Railway Construction Port and Channel Group Co., Ltd./ Jiangsu New Yangzi Shipbuilding Co., Ltd.	Insulation Monitoring and Fault Location System	CCS
11	3,000DWT Ocean Rights Enforcement Vessel	1	Shenzhen Marine Com/CSSC HuangPu WenChong Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
12	Intelligent Research And Practical Training Dual-Use Vessel	1	Dalian Maritime University/ Cosco Shipping Heavy Industry (Dalian) Co., Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System	CCS
13	12,000m³ LNG Vessel	1	Cnooc Enertech Equipment Technology Co., Ltd./Nantong Cimc Sinopacific Offshore & Engineering Co., Ltd.	Main switchboard/Emergency switchboard Insulation Monitoring and Fault Location System	CCS
14	2,000P/3000M Ropax	1	Bohai Ferry Group Co.,Ltd./ Huanghai Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System	CCS
15	80,000DWT/65,000DWT/50,000DWT Semi-Submersible Vessel	3	COSCO SHIPPING Specialized Carriers Co., Ltd./ Guangzhou Shipyard International Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System/Control console	CCS
16	14,000kW Large Salvage Vessel	1	The Ministry of Transport in the south China sea rescue bureau/China Merchants Heavy Ind.(szn) Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
17	3,000DWT Icebreaker Research Vessel	1	ABB Engineering (Shanghai) Ltd./ Guangzhou Shipyard International Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
18	2,942kW Azimuth Thruster Tug	2	Tianjin lingang tug co., Ltd/ Shanghai Port Fuxing Shipping Co., Ltd.	New Generation Marine Power Supply and Distribution SystemMotor management and control system nsulation Monitoring and Fault Location System	CCS
19	Large oil spill recovery Vessel	1	Guangzhou Salvage Bureau/China Merchants Heavy Industry (Jiangsu) Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
20	3,800T New Geophysical Integrated Science Research Vessel	1	South China sea institute of academy of sciences/ CSSC HuangPu WenChong Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
21	6,600DWT Multipurpose Ro-Ro Vessel	1	MARFRET(France)/ Jiangsu dajin heavy industry co., LTD.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
22	Curise Vessel	1	Changjiang Overseas Cruise Travel Co., Ltd./ China merchants cruise manufacturing co., LTD	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System	CCS
23	Offshore Oil 165	1	Cnooc Enertech Equipment Technology Co., Ltd./Yantai Cimc Raffles Offshore Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system	CCS
24	Pier-based emergency salvage Vessel	1	The Ministry of Transport of yantai bureau/ Yantai Cimc Raffles Offshore Ltd.	New Generation Marine Power Supply and Distribution System Insulation Monitoring and Fault Location System	CCS
25	4,000kW Salvage Vessel	1	The Ministry of Transport in the east China sea rescue bureau/CSSC HuangPu WenChong Shipbuilding Co., Ltd.	New Generation Marine Power Supply and Distribution System Motor management and control system Insulation Monitoring and Fault Location System Attitude management system	CCS

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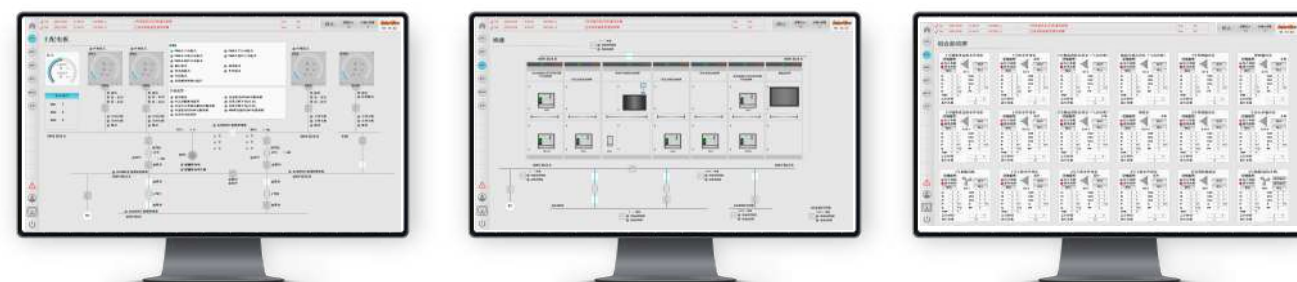
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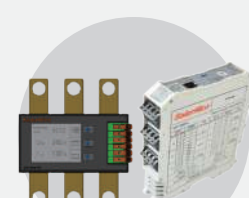
The new generation marine switchboard enables intelligent management and distribution of power systems, provides whole life cycle operation and maintenance and comprehensive electricity quantity analysis for ship power supply and distribution systems, compared to traditional switchboards. The new generation marine switchboard uses the switchboard as the central carrier. It adopts the mode of function selection to insulation monitoring and fault location, motor management control, electric energy monitoring and other sub-functional systems to expand the function module and control scope of the extension, monitor the vessel power-system parameters in real time and provide optimisation solutions through comprehensive analysis and diagnosis for ensuring safe and reliable operation of the power distribution system as well as power grid energy efficiency.



Insulation monitoring and
fault location device



Motor management
controller



Power Monitoring and
Analysis Module



Energy Efficiency Monitoring &
Analytics Module



Power Management
System Module



Infrared Temperature
Sensor



Time Delay Relay
Module

01 IMPS Insulation Monitoring and Fault Location System

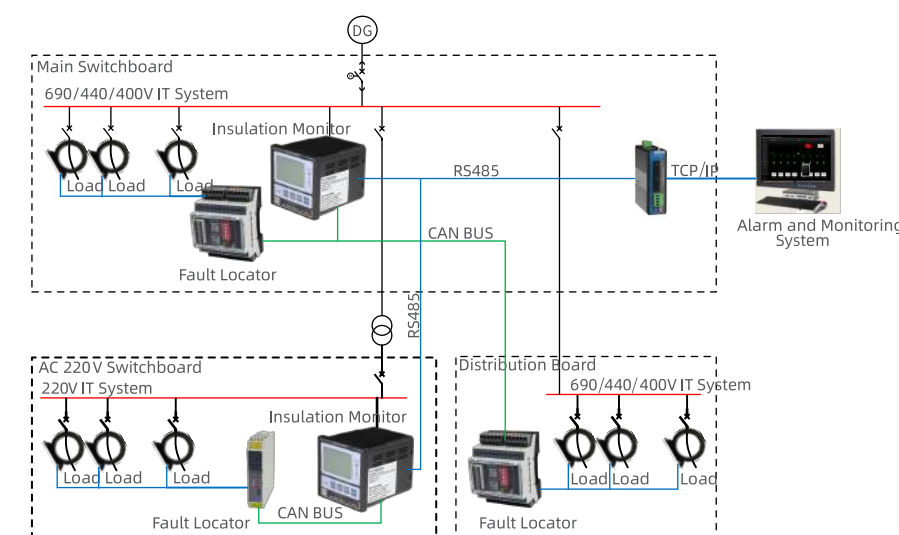
Insulation monitoring devices and fault Locator are used to monitor the insulation status of ship IT systems to ground and locate fault branch.

Features:

- 01 Insulation value range:0~10MΩ
- 02 Insulation measurement deviation:≤15%
- 03 Insulation monitoring response time:≤2S
- 04 Fault location resistance:≤25kΩ
- 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



02 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

