

No.	Project	Shipset	Shipowner/Shipyard	Scope of Supply	Class
1	22,000TEU/11,430TEU Container Vessel	8	MSC(Italy) Penglai Zhongbai Jinglu Shipbuilding Co.. Ltd.	HV Switchboard / LV Switchboard	DNV/BV
2	11,000TEU Container Vessel	6	X-PRESS(Singapore)/ Shanghai Waigaoqiao Shipbuilding Co., Ltd.	HV Switchboard	ABS
3	8,400TEU Container Vessel	10	Capital (Greece) Jiangsu New Times Shipbuilding Co., Ltd.	HV Switchboard /LV Switchboard	LR
4	154,000DWT Shuttle Tanker	2	Zhoushan COSCO Shipping Heavy Industry Co.Ltd..	HV Switchboard	DNV
5	16,000DWT Cable-Laying Vessel	1	Nantong Xiangyu Marine Equipment Co., Ltd. / Shanghai Yuanwei Construction Engineering Co., Ltd.	HV Switchboard	CCS
6	70,000DWT Semi-submersible crane vessel	1	COSCO SHIPPING Specialized Carriers Co., Ltd. Guangzhou Shipyard International Co., Ltd.(GSI)	HV Switchboard	CCS
7	79,800m³ LNG Carrier	1	Guangdong JOVO ENERGY Group Co., Ltd./ Jiangnan Shipyard (Group) Co., Ltd.	HV Switchboard/LV Switchboard	LR
8	Madura Floating Production Unit	1	PT. Timas Oceanstar Indonesia (PT.TOI)/ JiangSu Strongwind Marine Equipment Co., Ltd.	HV Switchboard/LV Switchboard	ABS
9	Floating Gas powerr Plant	1	ABB (Marine& Offshore)/ Wison(Nantong) Heavy industry Co., Ltd	HV Switchboard/LV Switchboard	BV
10	FSRU	1	China Petroleum Pipeline Engineering Co., Ltd./ Cosco (Shanghai) Shipyard Co., Ltd.	HV Switchboard/LV Switchboard	LR
11	1,740TEU Container Vessel	1	Maersk	HV Shore Connection Switchboard	ABS
12	4,275TEU/5,095TEU/9,365TEU/ 17,859TEU Container Vessel	8	CMA Ships	HV Shore Connection Switchboard	BV
13	4,578TEU/8,063TEU/8,888TEU/ 13,200TEU Container Vessel	17	OOCL	HV Shore Connection Switchboard	DNV/ABS
14	4,743TEU/5,500TEU/8,200TEU/ 8,500TEU/8,800TEU Container Vessel	10	MSC	HV Shore Connection Switchboard	DNV/BV
15	Large fracturing Vessel	1	China oilfeld services co., LTD., division of the ship/China Changjiang National Shipping Group jiangdong shipyard	HV Switchboard/ LV Switchboard	CCS
16	5,000T Crane Vessel	1	CCCC Third Harbor Bureau Sixth Engineering (Xiamen) Co., Ltd./Jiangsu Dajin Heavy Industry Co., Ltd.	HV Switchboard/PMS	CCS
17	4,000T Crane Vessel	1	Nantong Ocean Water Construction Co., Ltd./ Jiangsu Hantong Heavy Industry Co.,Ltd.	HV Switchboard	CCS
18	3,500T Crane Vessel	1	Shanghai Tongsheng Construction Engineering Co., Ltd/ Yangzhou Xinchuang Shipbuilding Engineering Co., Ltd.	HV Switchboard/PMS/UPS	CCS
19	2,500T/1,800T Wind Power Installation Vessel	1	CCCC Third Harbor Engineering Co., Ltd./Shanghai Zhenhua Heavy Industries Qidong Marine Engineering Co., Ltd.	HV Switchboard/PMS LV Switchboard IAMCS/Control Console	CCS
20	1,600T Wind Power Installation Vessel	1	Zhongtian Technology Ocean Engineering Co., Ltd./ China Merchants Heavy Industry (Jiangsu) Co., Ltd.	HV Switchboard (PMS) UPS	CCS
21	1,600T Wind Power Installation Vessel	1	Huaxicun Offshore Engineering Service Co., Ltd./Shanghai CRRC Hange Marine and Offshore Engineering Co., Ltd.	HV Switchboard/PMS	CCS
22	7,500t Crane Vessel	1	China oilfield Services Limited/ Shanghai Zhenhua Heavy Industries Co.Ltd.	HV Switchboard/LV Switchboard	CCS
23	5,000T Full swing crane Vessel	1	Liyang Marine Engineering Co., Ltd./Shanghai Zhenhua Heavy Industries Qidong Marine Engineering Co., Ltd	HV Switchboard/LV Switchboard/ Control Console	CCS
24	1,600T Self elevating and self-propelled integrated offshore wind power installation platform	1	Jingdezhen Haijian New Energy Engineering Co., Ltd./ Shanghai JiYao heavy industry co., LTD/Shanghai Zhenhua Heavy Industries Qidong Marine Engineering Co., Ltd.	HV Switchboard/UPS	CCS
25	1,500T Wind Power Installation Vessel	1	Shandong Lankun Ocean Engineering Co., Ltd./ Wuhan Changhai Chemical and Electric Power Co., Ltd.	HV Switchboard/690V Switchboard/ 440V Switchboard/Emergency switchboard	CCS
26	3,000T Self propelled fully rotating crane vessel	1	Yancheng Wenqiang Dredging Salvage Co., Ltd./ Jiangsu Rainbow Heavy Industries Co., Ltd.	HV Switchboard/PMS	CCS
27	1,600T Wind Power Installation Vessel	1	CRCC Harbour & CHANNEL Engineering BUREAU Group Co., Ltd./ Peaceful Vision(Lianyungang)Electronic Corporation/ Yantai Cimc Raffles Offshore Ltd.	HV Switchboard	CCS
28	1,800T Self-propelled jack-up offshore wind power construction platform	1	Tianjin Port and Waterway Engineering Co., Ltd. / Jiangsu Dajin Heavy Industry Co., Ltd.	HV Switchboard/LV Switchboard/AMS	CCS
29	2,000T Wind Power Installation Vessel	1	China Railway Major Bridge (Wuhan) Engineering Group Co., Ltd./China Merchants Heavy Industry (Jiangsu) Co., Ltd.	HV Switchboard/LV Switchboard Control console	CCS

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Hi-Nico
High Voltage Switchboard
Marine and Offshore



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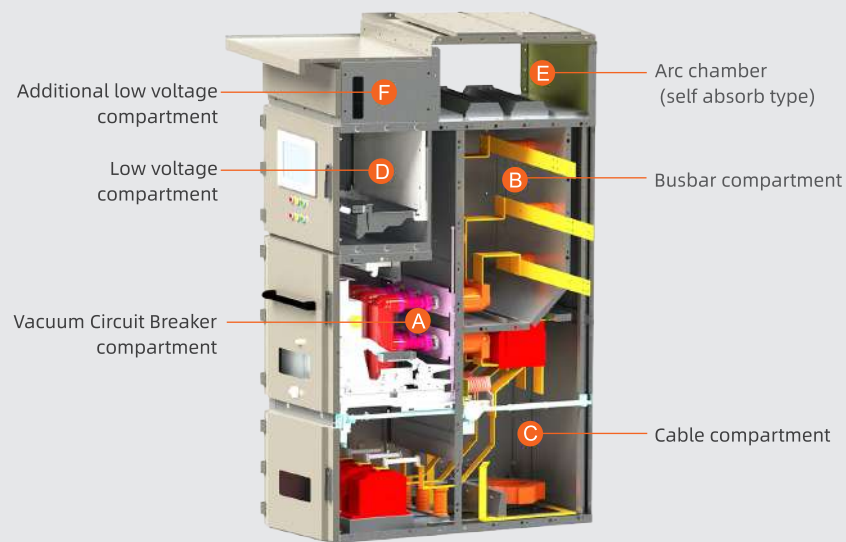


01 Characteristic

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		IP42
Loss of service continuity category		LSC2B
Dimension WxHxD (including foundation)	mm	550/650/800/1000x2658x1535

Hi-Nico is a metal clad air insulated switchboard, suitable for marine and offshore applications, it is a complete range of High Voltage standardized units, for the performing of the following functions.

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



02 Type test/Marine Approval

- Fully type tested according to international (IEC 62271-200: 2021, IEC 62271-1:2017) standards.
- LR Type Approved.
- Also tested in accordance with rules required by the major shipping registers (DNV, ABS, LR, BV, CCS and RINA etc.) for use of the switchgear in marine installations.



03 Main Components

■ Multifunction Protection Relay

Famous brand such as ABB, Schneider, Stucke, DEIF etc.



■ Vacuum circuit breaker

Suitable for different brands of VCB, such as ABB, Schneider and Siemens etc.



04 Other Applications



Bow Thruster Starter



High Voltage Shore Connection