

Integrating Tomorrow





A Leading System Integrator for Power, Control and System Solutions

ZPA is a world class integrator for power, control and system solutions. These are delivered through a wide range of in-house capabilities and support to customize solutions for our international clientele base.

With over 45 years of field services, electrical engineering and technology development, our founders transformed the business from a local switchboard supplier to system integrator with strong commercial success in both the marine & offshore and energy sectors globally.

ZPA is a system integrator in energy management system, marine hybrid propulsion control, full electric systems, marine fast charging and energy storage systems.

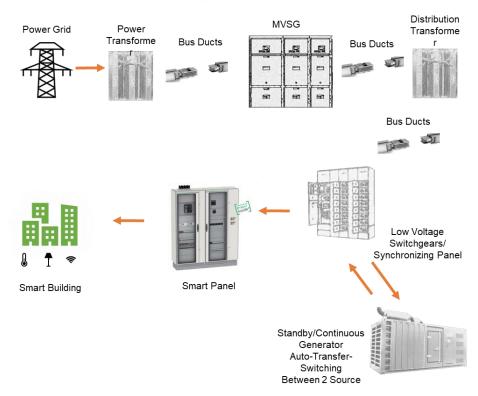
Our Mission:

"To exceed customer satisfaction by providing innovative and effective system integrated solutions"

Our Vision:

"To be a world leader in the design, manufacturing and integration of marine & Offshore and energy solutions"

Power, Control and System solutions



Solutions

Purpose

Z-Power Automation focuses on delivering ZPA products to marine & offshore and land-based clients in Singapore and the region. We dedicate ourselves to serve our clients with mutual respect and professionalism.

Ingenuity

We collaboratively develop power, control and solutions focused at optimizing engineering design, reducing system cost, improving electrical performance, efficiency and enhancing safety and reliability for the plant and the system.

Reliability

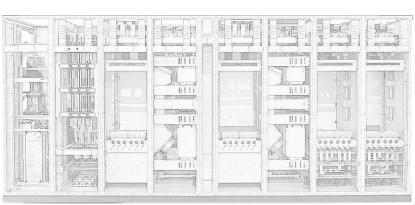
Home to world class products from the worlds' most renowned, ZPA strive to achieve the highest specification given from owners with the most innovative and reliable solution.

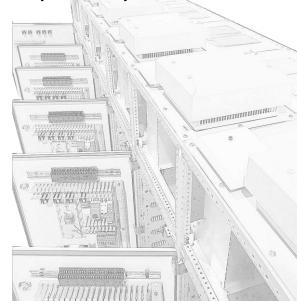
Service Portfolio

- Engineering and Design
- Project management
- In-house manufacturing
- Maintenance and field services
- ▼ Retrofit
- Diagnosis

Engineering

- Short Circuit Calculation
- Total Harmonic Distortion (THD Study)
- Coordination and Selectivity Study
- Load Flow Analysis
- Arc Flash Analysis
- Voltage Drop Analysis
- Dynamic Motor-Start Analysis
- DC System Analysis





Our Facilities

Our manufacturing facility spans over 5000sqm with a strong workforce of 69.

The facility has full in-house capabilities of structural design, wiring, assembly and testing with type tested switchboard and approved busbar systems.





Our Certifications





















Our Products Marine type approvals





















Our Partners



ABB single and multidrive systems of low voltage motors and drives are suitable for various marine and energy applications.

ZPA is the authorized value provider and certified system integrator for the liquid / air-cooled motors, drives and controls.

logstrup

Løgstrup has over 60 years of history in the design and manufacture of low voltage (LV) modular systems, LV switchgears and control gears solutions.

ZPA is the licensed panel builder for the LV distribution switchboard and motor control centres.

SIEMENS

Siemens SIVACON S8 sets new standards as a power distribution board or motor control centre for both industrial and infrastructure applications.

ZPA is the technology partner for the SIVACON S8 switchgears.



Danfoss Power Electronics Drives products are suitable for various marine & Offshore, Hybrid and Electric applications. Products includes VLT, VACON and iC7 products families.

ZPA is the certified for the leading system integrator.

Schneider Blectric

Schneider Electric Prisma iPM is the solutions for low voltage electrical distribution switchboards

ZPA is the Certified Panel Builder for the Smart Panel.



Schneider Electric
EcoXpert Digital Panel
Master recognized partner
as competent in
digitalizing the fields of
power management,
building control and
energy efficiency

ZPA is the certified EcoXpert Digital Panel Master Badge system integrator.

Our Partners



Niigata Power Systems
Co.,Ltd. manufactures power generation products for marine, power generation. It offers diesel engines, marine diesel engines, gas engines, gas turbines, and parts. The company also provides Z-Peller, a propulsion unit for tugboats, passenger vehicles, offshore vessels, and special vessels. Niigata Power
Systems Co.,Ltd. operates as a subsidiary of IHI Corporation



Lyngsø Marine are one of the worlds leading suppliers of advanced marine automation equipment, marketed under the Stella® brand name. Founded in the 1950s, Lyngsø Marine have installed over 6,800 systems worldwide and boast an impressive knowledge and expertise that is unrivalled in their market sector.

E-Pod®

E-Pod® Propulsion Pte Ltd is the only homegrown company that designs and manufactures electric propulsions in Singapore. E-Pod offer Electric Stern & Bow Thrusters. A total system integration of the propulsion with flexible solutions in diesel electric, hybrid, full battery operation, hydrogen, and methanol fuel cell. E Pod thrusters are robust and compact. The azimuth provides good maneuvering and higher efficiency as well achieving decarbonization with green energy solutions towards sustainability.

ZPA is the OEM manufacturer for their main engine and propulsion remote control system. ZPA is also the authorized service agent for the remote-control system

ZPA is the authorized distributor and service agent for Wartsila Lyngsø Marine Marine A/S control Solutions.

ZPA is the OEM manufacturer for their e-Pod propulsion control system. ZPA is also the authorized service agent for the control system



EVE is a global lithium battery company which possesses core technologies and solutions for consumer batteries, power batteries and energy storage batteriesestablishes indicators to guide the design, construction and operation of buildings towards increased energy efficiency and enhanced environment performance.

ZPA is the collaborating partner as system integrator for Energy Storage System Solutions for both Marine & Offshore and Industrial applications.



ZPA appointed YGE exclusive Sales and After Sales Service agent in Taiwan for ZPA's Products ZPA Main Switchboards Distribution Panels, Starter Panels, Motor Control Centres, AMS, Vessel Consoles and Motors & Drives.



Lilaas AS Is a technology company, expert on precision mechanical details, maneuvers, and joysticks manufacturing.

ZPA is the authorized service agent for the control levers and joysticks.

Our Products

Lagstrup



Type Tested LV Switchboard

Modular, Scalable and Compact Reduced cost of CU for main busbar

Current ratings up to **8500A** and Short circuit tests up to: **Icw 150kA 1/sec, ipk 300kA, Flexibility of ABB, Siemens and Schneider components selections** Fixed & Withdrawal options with Rear access option



Intelligent Motor Control Centres (iMCC)

Main Busbar up to **4000A** and Short circuit test up to **100kA/1sec**Fixed & Withdrawal options with Rear access options
Up to IP55 Rating and Form 1 to 4, A and B Type 7



Internal Arc Containment (IAC)

Design for **control and safe release** of pressure and gasses caused by arc and for explosion duct **releases overpressure** via the top

Each section is separated to prevent arc spread along the main busbar

Our Products

SIEMENS SIVACON S8



	Circuit-breaker design	Universal mounting design	In-line design, plug-in
Mounting design	Withdrawable design Fixed mounted design	Withdrawable design Fixed-mounted design with compartment doors Plug-in design	Plug-in design
Functions	Incoming unit Outgoing unit Coupler	Cable feeders Motor feeders (MCC)	Cable feeders
Rated current I_n	Up to 6,300 A	Up to 630 A	Up to 630 A
Connection type	Front and rear side	Front and rear side	Front side
Cubicle width	400, 600, 800, 1,000, 1,400 mm	600, 1,000, 1,200 mm	1,000, 1,200 mm
Internal separation	Form 1, 2b, 3a, 4b, 4 type 7 (BS)	Form 3b, 4a, 4b, 4 type 7 (BS)	Form 3b, 4b
Busbar position	Rear, top	Rear, top	Rear, top

Fixed-mounted design	In-line design, fixed-mounted	Reactive power compensation
Fixed-mounted design with front covers	Fixed mounted design	Fixed mounted design
Cable feeders	Cable feeders	Central compensation of reactive power
Up to 630 A	Up to 630 A	Non-choked up to 600 kvar Choked up to 500 kvar
Front side	Front side	Front side
1,000, 1,200 mm	600, 800, 1,000 mm	800 mm
Form 1, 2b, 3b, 4a, 4b	Form 1, 2b	Form 1, 2b
Rear, top	Rear	Rear, top, without

Our Products Intelligent IEC type tested Switchgear



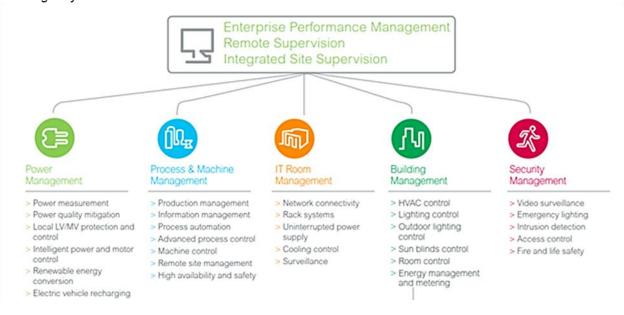
Functional panels for tertiary and industrial building

Prisma iPM... 100% and more than IEC standard!





The domain of **power distribution and management** includes integrating digital expertise from design through maintenance of the project lifecycle. Our competencies are better aligned with customer on their site criticalities, applications, and unique solution needs. EcoXpert to further solidify enabling customers to achieve their net-zero ambitions and realize a real ROI on their investments. EcoXpert are competent in the fields of building control, power management and energy efficiency. With a proven track record of delivering best-in-class services and solutions, EcoXpert is committed to delivering intelligent and sustainable solutions that add value and longevity to the success of our shared customers.

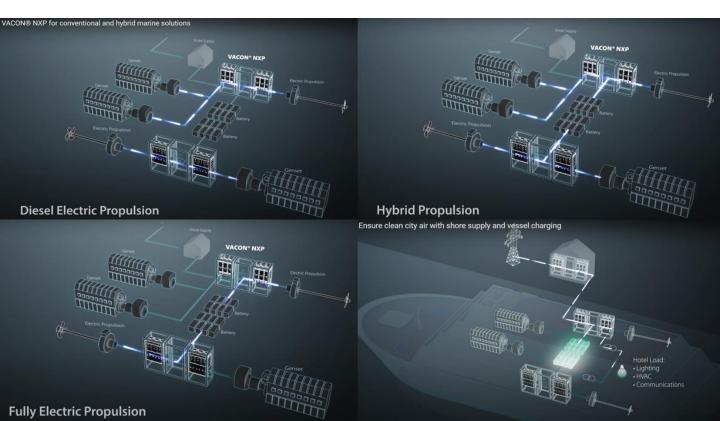


Our Products Drive Panels





ENGINEERING TOMORROW



Our Products Drive Panels





ZPA is appointed by ABB Finland as Authorized Value Provider(AVP) for ABB Drives up to 5MW 690VAC in Singapore for a third year running.

ZPA is able to provide Full Inhouse Engineering, Design, manufacturing, FAT, Testing and commissioning at site for Low Voltage Low harmonics Variable Frequency Drives.









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