



# MARINE POWER PROTECTION AND CONVERSION SOLUTIONS



# ADD ENERGY TO YOUR LIFE WITH US!

Innovasis is a company with approximately 20 years of international experience in the Power Electronics sector, using modern production and design techniques, and providing services with its expert staff in production and technical support.





 **INNOVASIS**  
INNOVATIVE ENERGY SYSTEMS

***Industrial  
Power Solutions***



***Critical Power  
Solutions***



***Wide Service  
Network***



# MARIN / **POWER ELECTRONICS SOLUTIONS**

## MARIN POWER ELECTRONICS PROTECTION AND DC SYSTEM SOLUTIONS

BASIC PROTECTION AND SECURITY SYSTEMS IN  
PORTS AND ON THE OFFSHORE

5 kVA — 1000 kVA

BASIC PROTECTION AND SECURITY SYSTEMS IN  
PORTS AND ON THE OFFSHORE



### MARINEAC UPS

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1-Phase AC UPS  
5 kVA - 100 kVA  
3-Phase AC UPS  
5 kVA - 1000 kVA



### MARINEDC UPS

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1-Phase Rectifier/Battery Charger  
24 V - 110 Vdc  
50 A - 100 A  
3-Phase Rectifier/Battery Charger  
24 V - 220 Vdc  
50 A - 100 A

## MARIN / *POWER ELETRONICS SOLUTIONS*

Robust and reliable engineering solutions designed to meet customers' demands and requirements for marine vessels at sea or in



PASSENGER AND CRUISE SHIPS



SUPER, MEGA AND GIGA YACHTS



PASSENGER AND CRUISE SHIPS



MILITARY SHIPS AND SUBMARINES



MOBILE OFFSHORE UNITS



SHORE TO SHIP / SHIP TO SHORE



**MARINE CONVERTER**  
24 Vdc - 220 Vdc  
15 A -1500 A



**MARINE CONVERTOR**

10 kW to 1000 kW



# Ensuring Safety on board

Innovasis offers a complete range of products designed specifically for marine applications.

Depending on the type of ship and requirements, we provide the most robust conventional or modular AC and DC systems. Our customized solutions are designed to withstand the harsh conditions of typical marine environments. Vibrations, shocks, high temperatures and tight spaces are important issues to consider when installing a power protection system on board.

Ships need to be fully operational and at peak performance levels throughout their journey across the seas and oceans. Any interruptions, power outages and other disturbances can put the equipment on board and the safety of the passengers at risk. All Innovasis solutions meet the following requirements.



Special Engineering  
Solutions



Reliable and Robust  
System



Easy Installation  
and Serviceability

## AC UPS

Innovasis designed and ruggedized UPS solutions are designed to protect critical equipment and essential systems on board, ensuring that they remain fully operational even in the event of a power outage.

## DC UPS

Innovasis rectifiers provide safe power supply to DC-powered loads as well as battery charging, whether on land or at sea. Flexible solutions that can be used to charge ship batteries and provide reliable power to DC vital and auxiliary services.

## CONVERTER

The Innovasis product range includes both shore-to-ship and ship-to-shore converters that guarantee reliable power supply in port. Environmental footprint and cost savings are critical issues for port authorities and ship owners. Power converters reduce emissions and fuel costs when ships dock in port. Innovasis converters regulate the grid power supply to the appropriate ship voltage and frequency.

## *Power protection and conversion systems for marine applications*

The Innovasis marine product range is equipped with customized features and options that cover almost every customer demand. We can provide both standalone and modular systems that can be adapted to different onshore and offshore applications.

### **MAIN APPLICATIONS**

- Control/monitoring systems
- Navigation equipment
- Voyage Data Recorder
- Emergency public announcement
- Dynamic Positioning System
- Satellite communication
- Built-in cable TV
- Internal cable TV
- Azipod control
- Radio, telecom and IT systems
- Ship automation
- Power distribution and filtering systems
- Emergency lighting and security systems
- Watertight doors

### **MAIN FEATURES**

- Protection degree up to IP 54
- Tropicalized electronic boards
- Front access for easy maintenance
- Compliant with anti-vibration regulations
- Flame retardant and low smoke emission cable
- Ability to work with different battery Technologies

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## AC UPS

### MAIN APPLICATIONS

- Power: 5 kVA - 200 kVA 3/1-phase, up to 1000 kVA 3/3 phase
- Internal manual bypass switch for maintenance
- Input voltage up to 690 Vac
- Input/Output galvanic isolation
- Operating temperature: 0°C to 40°C (Up to 55°C with derating)



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## DC RECTIFIER

### MAIN APPLICATIONS

- Output Voltage: 24Vdc to 200 Vdc,
- 50 A to 2000 A 3-phase input
- Output Voltage: 24Vdc to 110 Vdc,
- 50 A -100 A 1-phase input Input isolation transformer
- Input voltage up to 690 Vac
- Convection cooling up to 500 A
- Operating temperature: 0°C to 40°C (up to 55°C with derating)



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## DC CONVERTOR

### MAIN APPLICATIONS

- Power: 40kW to 300kW
- Wide input voltage range
- 170Vac to 520Vac / 40 - 60Hz
- Input/Output galvanic isolation
- Dual input Master/Slave configuration
- Operating temperature: 0°C to 45°C (up to 55°C with power derating)





# Maintenance and Service



The customer's expectation defines the priority of Innovasis, from early analysis of project requirements to worldwide commissioning and service. A highly trained team of expert, certified technicians and engineers. Wherever you are, you can be sure that Innovasis support will be of the highest standards.



## Planning, Installation

Commissioning Innovasis helps you in every step of your project.



## Care

Preventive maintenance guarantees uninterrupted operations and optimized system efficiency



## Analytical Tests

Innovasis performs a series of analytical tests to guarantee higher efficiency and continuity in the operation of your system.



## Battery Tests

Batteries have a limited lifespan and proper maintenance is essential to ensure the efficiency of the UPS and to prevent possible failures. Innovasis offers high quality and ensures trouble-free operation.



## Repair and Spare Parts

All spare parts supplied by Innovasis are original, tested and guaranteed to be fully compatible with Innovasis solutions.



## Education

Innovasis service training for distributors and customers is structured in 3 levels. Lessons are conducted at Innovasis training centers or at the customer's location.

