



**CURRENT**  
*POWER*

# ABOUT CURRENT POWER SOLUTIONS

Current Power Solutions builds electrical and automation equipment for Offshore Vessels including Platform Supply Vessels, Crane Barges, Dive Support Vessels, Anchor Handling and Tug Supply Vessels, Dredges, and Pipelay Vessels. The drives, switchgear, controls, and other equipment are specifically designed for offshore environments. They are built to survive extreme temperatures, corrosive environments, wave motion, and small space requirements.

The design, manufacturing, and testing can meet the requirements of all major offshore classification entities including ABS, DNV, LR, BV, and USCG. Power Management and Alarm Monitoring Systems allow vessels to operate under classification rules without the need for full time staffing of machinery rooms. We can also supply equipment built to IEC standards with CE marking, when required.



## Marine capabilities:

- Vessel Management Systems
- Variable Frequency Drives
- Switchgear & Switchboards
- Generator Controls
- Engineering Studies



## VESSEL MANAGEMENT SYSTEMS

Our Vessel Management Systems use standard PLCs, I/O modules, and HMI touchscreens. The hardware is fully redundant, including processors, communication links, and power supplies. The Power and Vessel Management Systems are developed to meet specific application, customer, and regulatory requirements. Our Power Management System allows for automatic, load-dependent starting and stopping of engines while monitoring the power system for faults and warnings. These systems are designed to be operated from the bridge with HMI touchscreens that are simple and intuitive to use.

Typical automation functions include:

- Alarm Management Systems
- Power management systems
- Cargo handling, including tank level monitoring & control
- Ballast control
- Machinery and auxiliary alarm and management
- Alarm, data, and event logging



# VARIABLE FREQUENCY DRIVES

Current Power Solutions manufactures high-power motor drives that are designed for reliability and maintainability. Air-cooled and water-cooled Variable Frequency Drives are available with ratings up to 4.5 MW (6000HP). The power bridges are modular for ease of serviceability. The drives are supplied with digital controllers that are programmed to suit specific applications including thrusters, cranes, winches, and pumps.



If you need more information about Current Power Solutions, simply give us a call or visit our website.

## SWITCHGEAR & SWITCHBOARDS

Our high-power switchgear and switchboards are built to customer specifications and application requirements. The switchboards are fabricated to meet the requirements of the environment, marine classification societies, and a variety of electrical standards (e.g. IEC, CSA, ANSI, IEEE). The switchboards are available with the following ratings.

- Voltages up to 13.8kV
- Current ratings up to 8,000A
- Fault current ratings up to 100kA.
- Supply frequencies of 50Hz and 60Hz



## GENERATOR CONTROLS

Current Power Solutions manufactures generator controls for all of the major engine and generator manufacturers. Typical controls include those required for synchronizing parallel generators, load sharing, and power management.



## ENGINEERING STUDIES

Engineering studies include short circuit analysis, load flow studies, protective device coordination, arc flash studies, bus bracing, and harmonic analysis.



5050 West Greens Road Houston Texas, 77066

Phone: 1.713.856.7357

sales@currentpsi.com



www.currentpsi.com