



# MARINE & OFFSHORE



MEETING YOUR REQUIREMENTS  
FOR SAFE POWER  
ON BOARD

# DO YOU HAVE THE **POWER** TO SAIL CONFIDENTLY INTO THE FUTURE?

On board any ship or offshore installation, there are numerous critical systems that oversee a large number of functions and applications. Continuous and safe operation of these systems begin and end with stable and safe supply of power.

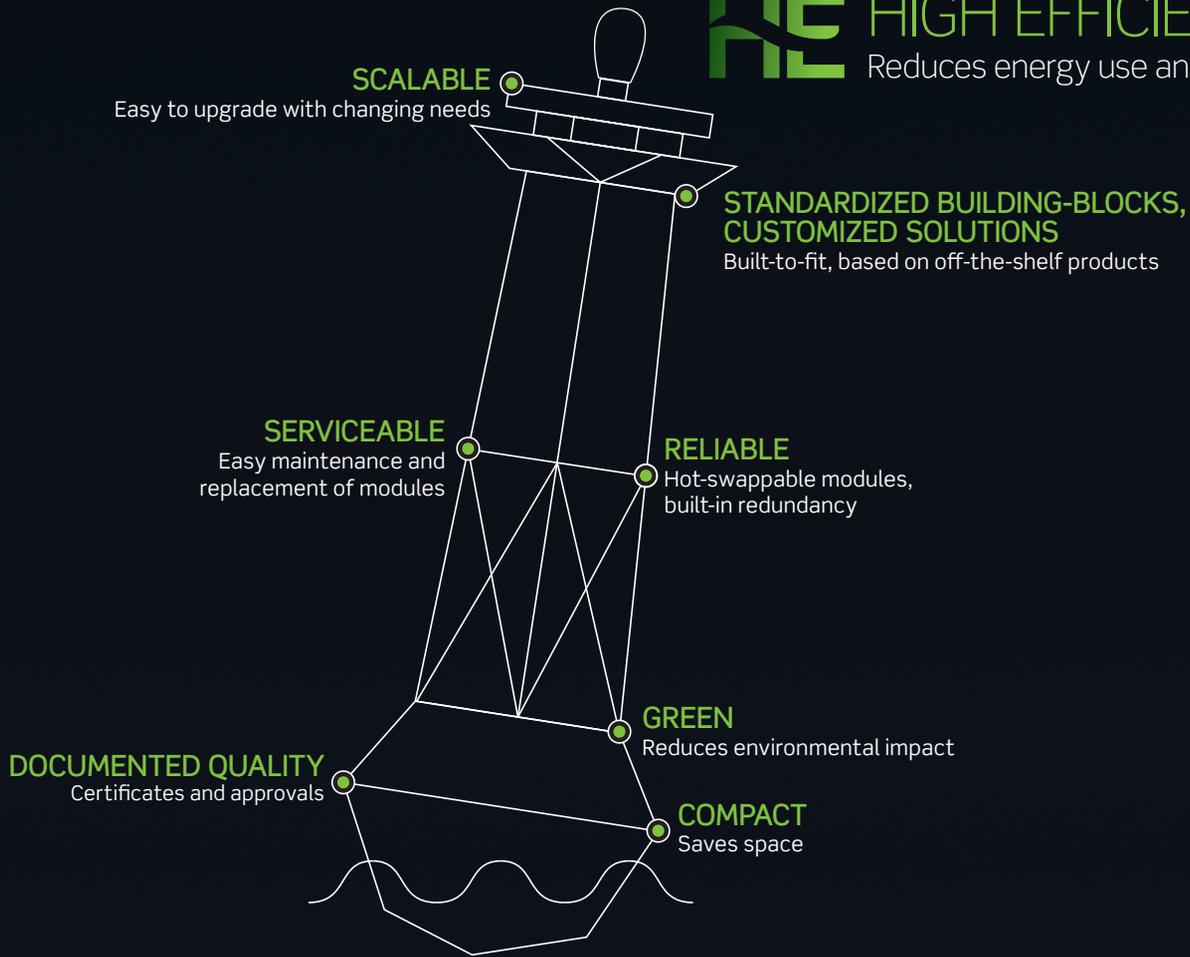
Eltek is part of the proud Norwegian maritime and offshore heritage and can look back on more than 40 years experience as a dedicated power specialist. We offer marine and offshore power solutions that are reliable, modular and compact. They provide the power you need to keep your revenue on-stream.



SUPERIOR POWER SUPPLY SOLUTIONS – **MARINE & OFFSHORE INDUSTRY INSIGHT**

# HE HIGH EFFICIENCY

Reduces energy use and cost



## ELTEK POWER SYSTEMS - PERFECT FOR ON-BOARD APPLICATIONS

- Safety, environmental and cruising systems
- Management and business support systems
- Special systems

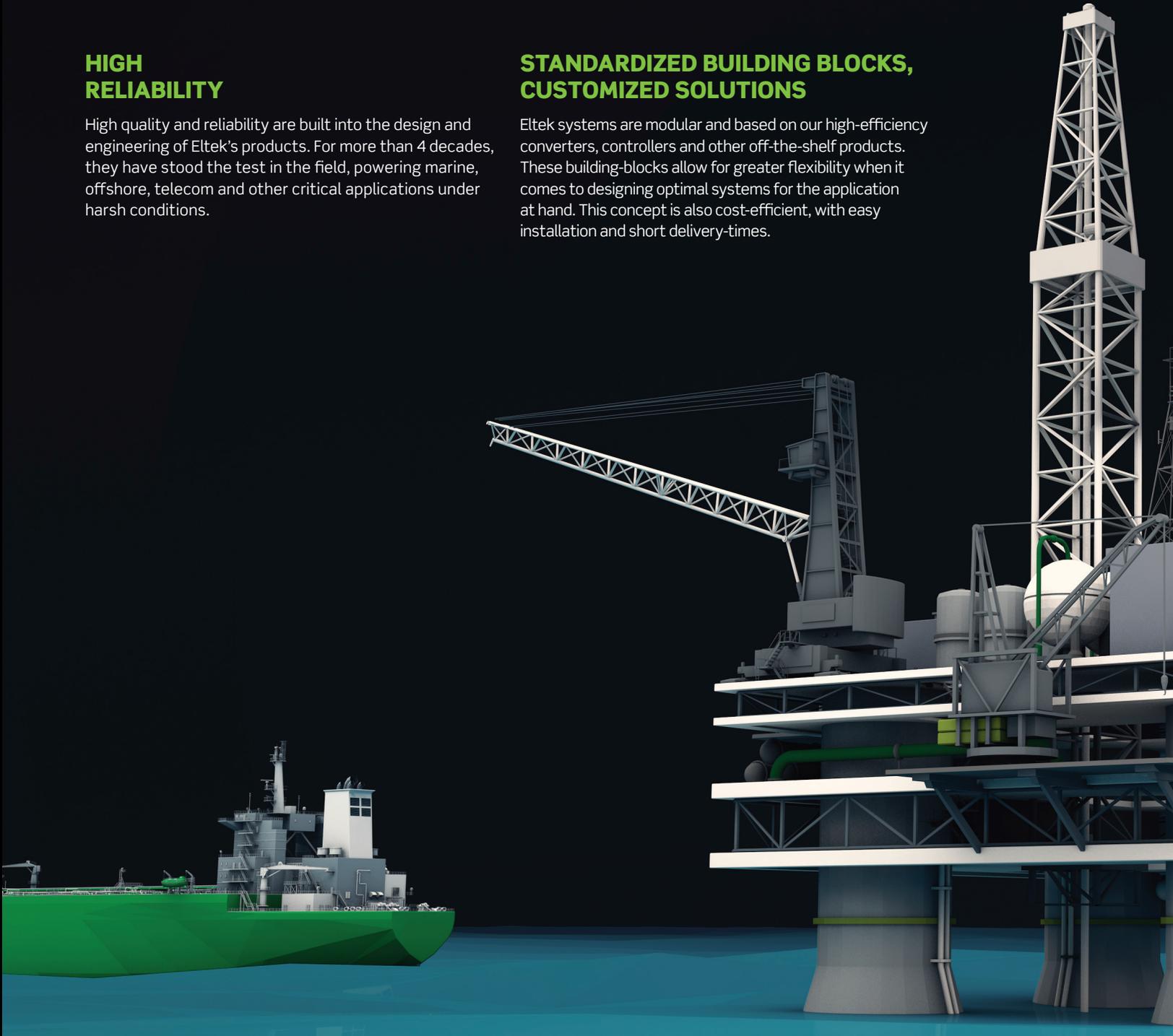
# ELTEK POWER SOLUTIONS THE MODULAR WAY FORWARD

## HIGH RELIABILITY

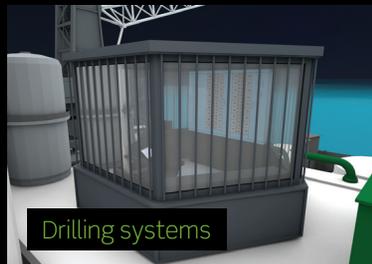
High quality and reliability are built into the design and engineering of Eltek's products. For more than 4 decades, they have stood the test in the field, powering marine, offshore, telecom and other critical applications under harsh conditions.

## STANDARDIZED BUILDING BLOCKS, CUSTOMIZED SOLUTIONS

Eltek systems are modular and based on our high-efficiency converters, controllers and other off-the-shelf products. These building-blocks allow for greater flexibility when it comes to designing optimal systems for the application at hand. This concept is also cost-efficient, with easy installation and short delivery-times.



Public address and alarm



Drilling systems

## EXAMPLES OF APPLICATIONS WE DELIVER POWER TO:

- Propulsion control
- Water tight doors
- Navigation
- Ship identification
- Ballast water treatment
- Drilling systems
- Leisure room
- Computer room
- Crane lifting
- Public address and alarm

## GLOBAL SERVICEABILITY

Modularity equals serviceability. If a module should fail, it is a simple task to replace it. This can be done immediately and swiftly if a spare module is at hand, or at the first possible opportunity, e.g. at the next port.

Eltek's global service and support organization are ready and available to service our installations all over the world.

## UNRIVALLED FLEXIBILITY

The modular architecture of Eltek's power systems makes them extremely flexible. A number of predefined off-the-shelf systems, for a variety of applications, handle wide ranges of input and output voltages.

Configurations are easy to change and expand and your Eltek system will meet both current and future power needs.

## BUILT-IN INTELLIGENCE

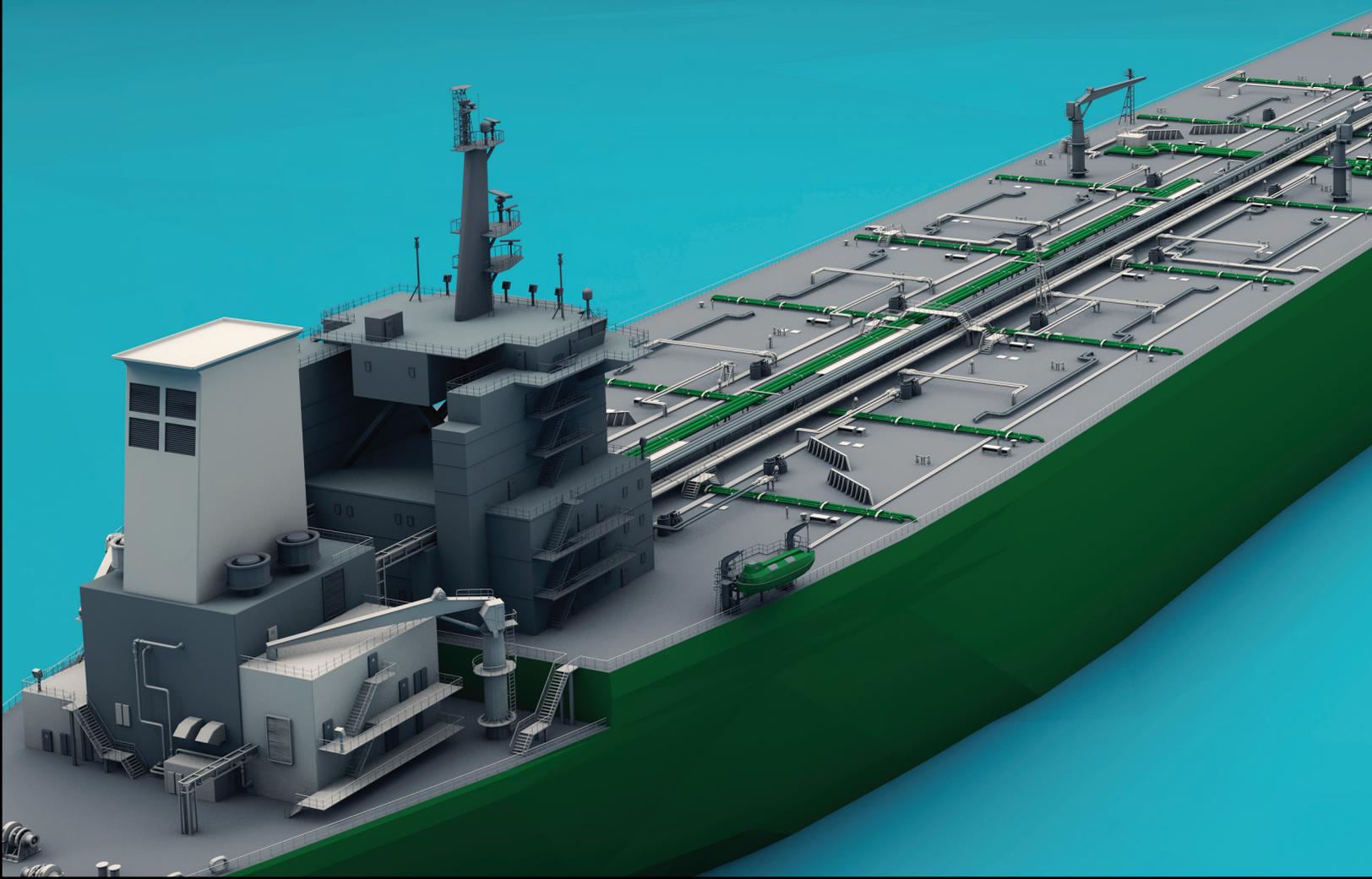
The "brain" of the modular Eltek system is the advanced controller unit and its intuitive monitoring software. It allows the system to be controlled and fine-tuned to deliver optimized performance under all conditions. From one screen connected to LAN/WLAN, the operator has a full overview and can optimize the operational parameters of separate or multiple systems.

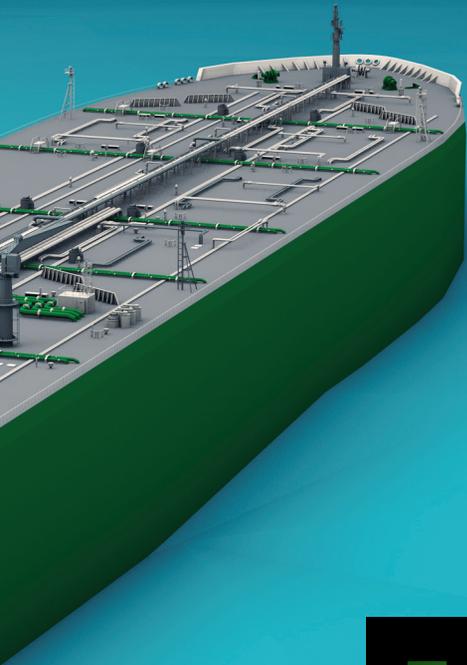


d alarm

# SAIL INTO A GREENER FUTURE

The marine and offshore industries are generating, converting and using electricity. By deploying HE power conversion, thousands of tons of CO2 can be saved every year, and significant reductions in operating expenditure can be achieved. This demonstrates a willingness to act on behalf of the environment and helping to build a greener brand for the future.





## HIGH EFFICIENCY

Eltek's unique power conversion technology is the result of decades of intensive research and technical breakthroughs, and has defined "high efficiency" in the power industry for years. With market leading conversion efficiency, the power loss during use is minimized, with resulting significant cost savings and reduced environmental impact.

# ELTEK SYSTEMS AND MODULES

Eltek systems are used in marine & offshore applications worldwide. With a variety of high-performance power converters and system building blocks available, systems from 100W to several 100kW can be realized.



## ELTEK MARINE POWER SYSTEM 96KW, 220VDC

The central system is the heart of an Eltek Marine Power system, providing the secure 220 VDC power that can be efficiently distributed around the vessel. The central system is modular and thus provides full flexibility in output power, redundancy and serviceability.

**APPLICATION EXAMPLE: CENTRALIZED POWER**

### FEATURES

- Centralized 220VDC
- External battery cabinet
- Uninterrupted operation
- Full overview and control
- Modular



## FLATPACK2 24VDC 43.2KW

The combination of cost-effective design, power density and reliability makes the Flatpack2 24V 43.2 kW a product family that truly stands out and provides unparalleled availability. The versatility of the Flatpack2 rectifier means that it can be used in a wide variety of 24 VDC marine applications across the globe.

**APPLICATION EXAMPLE: BATTERY BACKUP**

### FEATURES

- Stand alone or part of a centralized system
- 24VDC 43.2kW
- Uninterrupted operation
- Full overview and control
- Modular



## FLATPACK S MARINE SYSTEM 8KW, 24VDC

Based on the successful FLATPACK S rectifier module, this system can provide up to 8kW 24VDC with comprehensive distribution and terminations, all housed in a 1.2 m high cabinet. The system can be powered from AC or DC.

**APPLICATION EXAMPLE: PA SYSTEM**

### FEATURES

- Stand alone or part of a centralized system
- 24VDC 8kW
- Uninterrupted operation
- Full overview and control
- Modular



## FLATPACK S MARINE SYSTEM 8KW, 24VDC WALLMOUNT

Compact 24VDC / 8KW system for wall-mounting. Based on the Flatpack S rectifier this is fully modular system for you on board applications that need safe and reliable power.

**APPLICATION EXAMPLE: DP SYSTEM**

### FEATURES

- Stand alone or part of centralized system
- 24VDC 8kW
- Uninterrupted operation
- Full overview and control
- Modular



## FLATPACK2 WALLBOX

The Flatpack2 Wallbox is built around our Flatpack2 rectifier. Its compact design and simple installation make it a powerful wall-mounted DC power supply package.

**APPLICATION EXAMPLE: PROCESS AUTOMATION**

### FEATURES

- Support for 24-125 VDC output
- Bulk-Feed or integrated distribution
- Digital controller with color display



## MICROPACK SYSTEM

The Micropack system is convection cooled, designed for less power hungry applications, but still with system functionality options to match any requirements. Use as stand alone or in a flexible off-the-shelf configurable system.

**APPLICATION EXAMPLE: INTERNAL POWER CONTROL CABINET**

### FEATURES

- DIN-rail mountable, compact & shallow
- Configurable off-the-shelf delivery
- Various DC output versions



**MICROPACK WALLBOX**

The Micropack Wallbox has been designed for applications with power requirements in the range of 120 - 1000W. Its compact design, simple installation and optional internal backup batteries make it a truly "micro" DC backup system.

**FEATURES**

- Support for various DC output voltages
- Bulk-Feed or integrated distribution
- Digital controller with or without display
- Modular

**APPLICATION EXAMPLE: SUPERVISION & ALARM SYSTEMS**



**FLATPACK S RECTIFIER SIL 3 OVP**

FlatpackS 24/1000 SIL3 OVP is a hot pluggable rectifier designed for working in parallel (N+1) or for stand-alone use. The rectifier is digitally controlled, and communicates via a CAN bus. There are two microcontrollers inside each rectifier, facilitating extended functionality. The output is protected by an Oring diode.

**FEATURES**

- Compact and shallow
- High power density
- Accepts DC input
- Alarm relay output
- SIL 3

**APPLICATION EXAMPLE: SAFETY AND INSTRUMENTATION SIL 3**



**FLATPACK S 24V/3X2kW**

With a depth of only 265mm, the Flatpack S System will fit in most cabinets or racks, and is ideal for powering supervision and safety equipment. It has built-in redundancy for reliable operation. Available with marine certifications and in SIL3 versions.

**FEATURES**

- Compact and shallow (265mm system depth)
- High power density
- Accepts DC input (DC/DC converter)
- Alarm relay output – basic monitoring possible without a controller

**APPLICATION EXAMPLE: OFFSHORE INSTRUMENTATION SIL3**



**SMARTPACK2 CONTROLLER**

Smartpack2 is built on the proven software platform that is used in Smartpack, making it reliable and robust. It has enhanced interfacing through 3.2" TFT high resolution color display and local alarm LEDs. It is used in many of our systems bringing un-matched and extensive features, including battery management.

**FEATURES**

- Ethernet for remote or local monitoring and control via WEB Browser
- Intelligent battery management
- Modular

**APPLICATION EXAMPLE: ALL SYSTEMS WITH MONITORING & COMMUNICATION**



**FLATPACK2 HE RECTIFIER**

The most efficient power conversion module in the industry! Since the launch the Flatpack2 family has expanded to cover a wide range of power ratings and voltages while maintaining a high power density and proven reliability.

**FEATURES**

- Application flexibility, 2 – 192kW
- Accepts DC input (DC/DC converter)
- Global compliance (CE, UL, NEBS)
- Patented technology
- Digital controllers

**APPLICATION EXAMPLE: IN AC/DC OR DC/DC SYSTEMS**



**MICROPACK MODULE**

The Micropack is a convection cooled rectifier for less power hungry applications, but still with system functionality options to match any requirements. Use as stand alone or in a flexible off-the-shelf configurable system.

**FEATURES**

- Compact and shallow (149 mm deep)
- DIN rail mountable
- On-site configurable
- Stand-alone option
- Accepts DC input (DC/DC converter)
- 12, 24-30, 48VDC output versions

**APPLICATION EXAMPLE: POWER SUPPLY OR CONVERTER FOR CONTROL CABINETS**



**COMPACT CONTROLLER**

"All-in-one" plug-in controller. Comprehensive functionality in a small box integrating Ethernet for remote or local monitoring and control via WEB browser.

**FEATURES**

- Ethernet port with HP Auto MDI/MDI-X for detection and correction for straight-through and crossover cables
- SNMP protocol with TRAP, SET and GET on Ethernet, Email of TRAP alarms
- 3 programmable relay outputs for "traditional" remote monitoring

**APPLICATION EXAMPLE: MONITORING & COMMUNICATION FOR SMALL POWER SUPPLIES**

# THE POWER CONVERSION SPECIALIST FOR MORE THAN 40 YEARS

Eltek has more than 40 years of experience as a power conversion specialist. Driven by a strong ambition to push the frontiers of technology, our hallmark has always been an ability to develop power conversion products that set the industry standard when it comes to efficiency, power density and flexibility.

Eltek is a power specialist with true global coverage, while our capabilities and capacity around the world are firmly rooted in the local business environment. This enables us to serve customers in the best possible way, whether they are global, regional or local.



## SERVICES THAT MAKE A DIFFERENCE

Eltek's global organization consists of committed power professionals with extensive expertise. Our solutions and services include site surveys, project management, installation and commissioning, maintenance, emergency services and training.



FINLAND  
NORWAY  
SWEDEN  
RUSSIA  
POLAND  
GERMANY  
UK  
SLOVAKIA  
FRANCE  
ITALY  
ROMANIA  
SPAIN  
TURKEY  
IRAN  
EGYPT  
SAUDI  
DUBAI  
PAKISTAN  
INDIA  
BANGLADESH  
VIETNAM  
THAILAND  
CAMBODIA  
PHILIPPINES  
MALAYSIA  
SINGAPORE  
CHINA  
HONG KONG  
SOUTH KOREA  
JAPAN  
NIGERIA  
KENYA  
AUSTRALIA



## EXPLORE THE ELTEK MARINE AND OFFSHORE OFFERINGS



### ANIMATION

This animation gives you a 2 minute summary of our offerings in the Marine & Offshore industry. Available on Smartphone, tablet and PC.

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always on



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