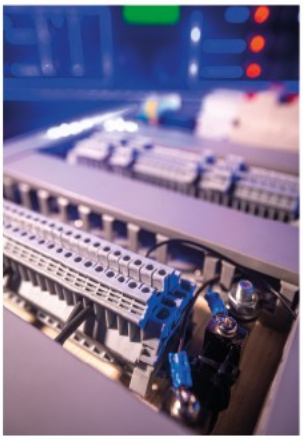
CUSTOMISED ELECTRIC SYSTEMS FOR NAVIGATION,

AT SEA AND ON THE ROAD.

E-BOATS SYSTEMS



STOCK AND CUSTOM PANELS CATALOGUE

SHARE YOUR IDEA, AND WE'LL MAKE IT REAL!

EP Rev.1

STOCK AND CUSTOM ELECTRIC PANELS CATALOGUE
SHARE YOUR IDEA, AND WE'LL MAKE IT REAL!

CAMPER AND MOTORHOME PANELS 2

-Compact 2
-Full Control 3

BOAT CONTROL PANELS AND SYSTEMS 4

-DC/AC Distribution panel 4
-Lighting and Bilge Pumps panel 6
-Pc/Monitor panel 7
-On-Board PC/Chartplotter 9

CUSTOM PANELS 11

-Custom panel templates examples 11
-Control panel Accessories 13
-Distribution panel Accessories 20
-On-Board PC Accessories 21

E-BOATS SYSTEMS

WWW.EBOATSYSTEMS.COM

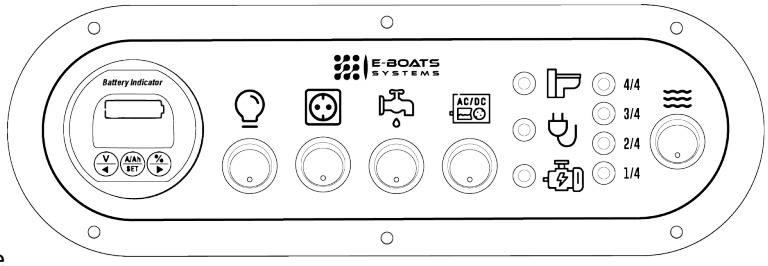
CAMPER AND MOTORHOME PANELS

These are our control panels designed for campers and motorhomes, meticulously crafted down to the smallest detail. They are built to be durable and functional, without compromising on an elegant and clean design. Each panel is equipped with safety fuses or breakers, allowing control, monitoring, and distribution of the most common onboard utilities. While these panels are manufactured and assembled in series, it’s also possible to make modifications to both the design and functionality based on individual needs.

COMPACT

"Compact" model control panel, designed for **12V systems** in campers and motorhomes.

A compact, functional, and elegant control panel. This model does not feature front-facing fuses or circuit breakers, allowing them to be installed in a separate, more discreet space together with the distribution panel.



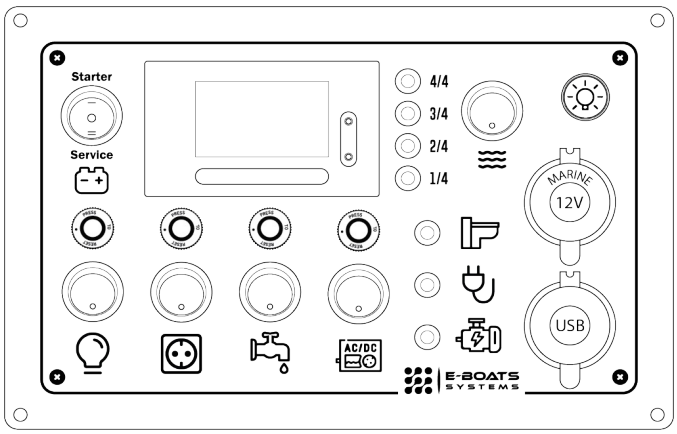
The panel is equipped with:

- **A smart voltmeter** for monitoring the service batteries, with a 200A shunt resistor and multiple functions, including voltage monitoring, current input/output, and undervoltage alarm;
- **4 switches** for controlling lighting, 12V outlet, water pump, and inverter, with a maximum limit of 20A per channel;
- **LED indicators** for the water tank level (with included sensors);
- **LED indicator** for DC power supply from the vehicle's alternator;
- **LED indicator** for active AC power (from external source, inverter, or generator);
- **Waste water LED indicator** to alert when the black water or toilet tank is full (with included sensor).

Control panel dimensions: 29.3 cm x 10 cm x 3 cm

FULL-CONTROL

Compared to the previous model, this version is equipped with circuit breakers placed directly in view on the panel for quick access in case of anomalies.
Additionally, it features a 12V output and USB ports for device charging. It also allows monitoring of both the engine battery and the service battery. Designed and tested for **12V DC systems**.



The panel is equipped with:

•**A smart voltmeter** for monitoring the various vehicle batteries, featuring a 200A shunt and multiple functions including voltage monitoring, input/output current, low-voltage alarm, etc. It's connected to a switch that allows selection and monitoring of two different batteries (service battery and engine battery).
•**4 switches** to control: lighting, 12V outlet, water pump, and inverter.
•**4 safety circuit breakers** to protect the electrical system without needing to replace fuses (Rated at: 15A for lighting, 20A for the 12V outlet, 15A for the water pump, and 10A for the inverter).
•**LED indicators** for the water tank level (sensors included).
•**LED indicator** showing the presence of DC power from the vehicle's alternator.
•**LED indicator** showing active AC power (from external source, inverter, or generator).
•**LED indicator** signaling that the black water tank or toilet is full (sensor included).
•**2 USB ports** for device charging.
•**1 12V outlet**.
•**Backlighting** (blue or green).

Control panel dimensions: 24.5 cm x 16 cm x 5.5 cm

Built for durability: those panels features an acrylic front for increased resistance, and every contact is soldered to ensure long-term reliability and durability.

Built with attention to detail, thoroughly tested, and designed specifically for **12V electrical systems** in motorhomes. (upon request, it can be adapted for 24V systems).

BOAT CONTROL PANELS AND SYSTEMS

We are pleased to introduce our line of control systems for boats, consisting of three specific control panels available in various configurations. These panels can be purchased either as a complete control system or as individual units.

Each panel is designed for durability and reliability, thoroughly tested, and guaranteed to work with **12V/24V DC systems**. Together, they allow you to monitor and control all the boat's systems, **both digitally and analogically**. Additionally, our open-source onboard computer interfaces seamlessly with existing instrumentation, enabling effective communication.

While these panels are built to withstand the challenging marine environment, it's essential to install them below deck—they are not suitable for external use. Their modular design ensures versatility during installation, adapting to different spaces. Each panel is produced in series; however, it's possible to make modifications to the design and functionality based on individual needs.

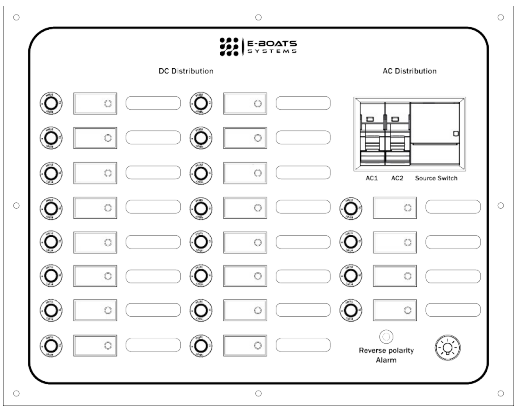
DC/AC DISTRIBUTION PANEL

This panel allows you to control the entire electrical distribution of the boat, covering both **110V/220V AC** and **12V/24V DC systems**. It's equipped with circuit breakers to ensure system protection against short circuits and overloads. Additionally, it features backlighting, and each switch's name can be customized using plated labels—available in standard sets or personalized.

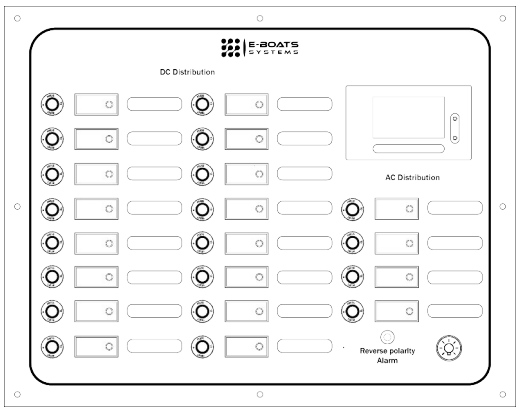
There are two different models currently available.

Contactor Model: This variant includes two magneto-thermal switches (16A each) for two different AC power sources (e.g., shore power and a generator). It also has a contactor that automatically switches to the secondary source when used.

Smart Voltmeter Model: Equipped with an intelligent voltmeter, this variant allows you to monitor and track battery status.



Contactor model

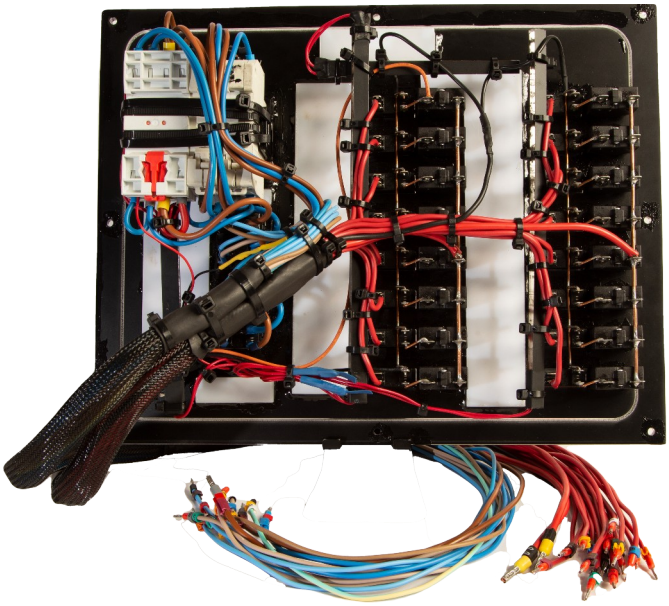


Smart Voltmeter model

Across variants, the common features include:

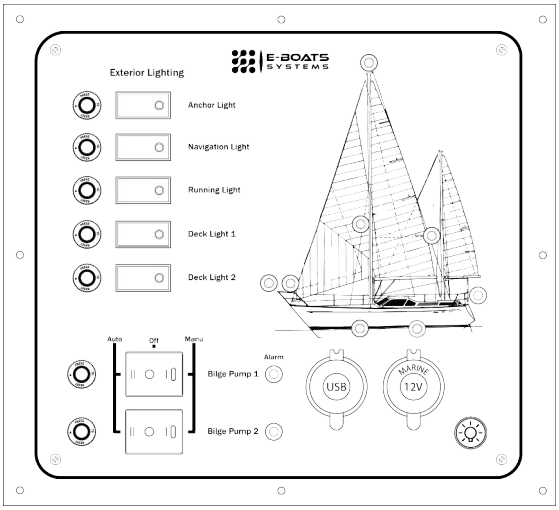
•**16 switches** for 12/24VDC utilities.
•**4 switches** for 110/220VAC utilities.
•**16 safety circuit breakers** to protect the electrical system without needing to replace fuses (2x 5A, 4x 10A, 5x 15A, 5x 20A If you need a different amperage, simply communicate your configuration to us and allow a few days to adjust the panel according to your needs).
•**LED indicator** for reverse polarity.
•**Backlighting** (blue).

Control panel dimensions: 34.5 cm x 27 cm x 5.5 cm



LIGHTING AND BILGE PUMPS PANEL

This panel allows you to control both the external lighting of the boat and the bilge pumps. It features LEDs that indicate the usage of various utilities on the boat's illustration, as well as alarm LEDs that activate when the bilge pump, set to '*automatic*,' comes into operation. Additionally, there are circuit breakers to ensure system safety against short circuits and overloads—all within a clean and elegant design.



The panel is specifically designed for **12V/24V DC** electrical systems and includes backlighting, a 12V output, and two USB ports for device charging.

There are 2 models of this panel: the "**basic**" model and the "**full**" model, which, unlike the first, includes 2 voltmeters and an analogue ammeter, enriching the functions and design. Additionally, both are currently available with 2 different boat designs: **sloop** and **ketch**.

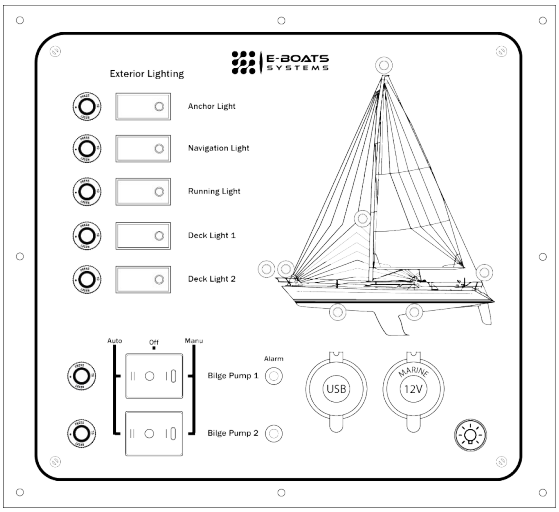
The panels are equipped with:

- **5 switches** with integrated safety circuit breakers for exterior lighting (Max 15A per channel).
- **2 on-off-on switches** with integrated safety circuit breakers for bilge pumps (Max 15A per channel).
- **2 USB ports** for device charging (QC 3.0).
- **1 x 12V power socket.**
- **LED indicators** for lighting and bilge pumps.
- **LED indicator** for bilge pumps alarm.
- **Backlit illumination** (Blue).

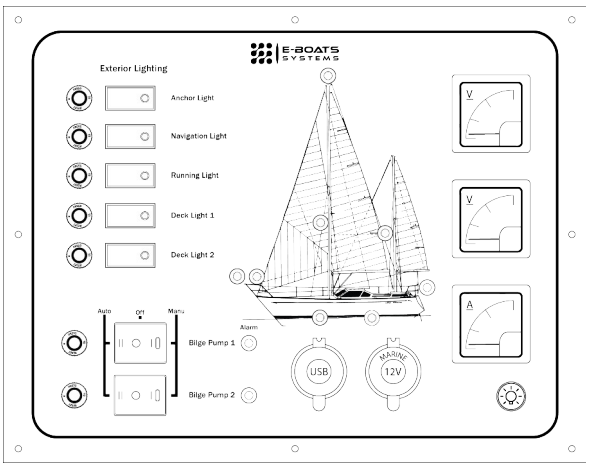
Additionally, the "**full**" models includes:

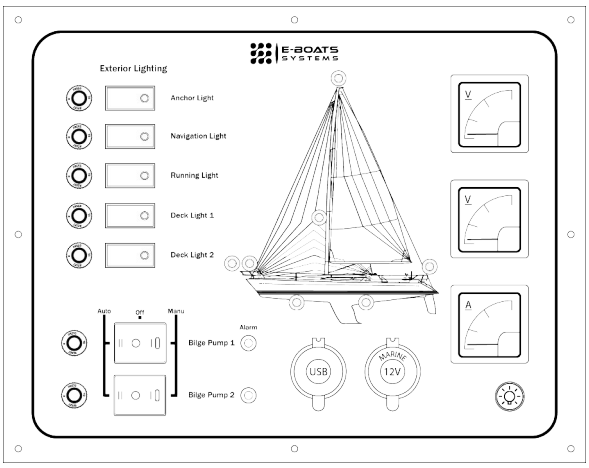
- **2 voltmeters** (DC max 30V and AC max 300V).
- **DC ammeter** (max 200A).

Control panel dimensions:
Full model 34.5 cm x 27 cm x 5.5 cm
Basic model 29.5 cm x 27 cm x 5.5 cm



Ketch and Sloop "basic" models



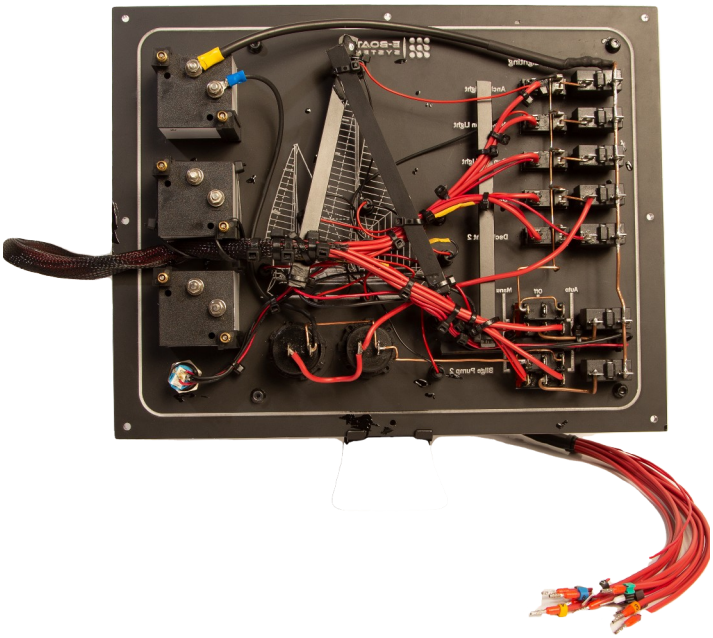


Ketch and Sloop "full" models

E-BOATS SYSTEMS
Exterior Lighting
Anchor Light
Navigation Light
Running Light
Deck Light 1
Deck Light 2
Auto
Off
Manu
Alarm
Bilge Pump 1
Bilge Pump 2
USB
12V

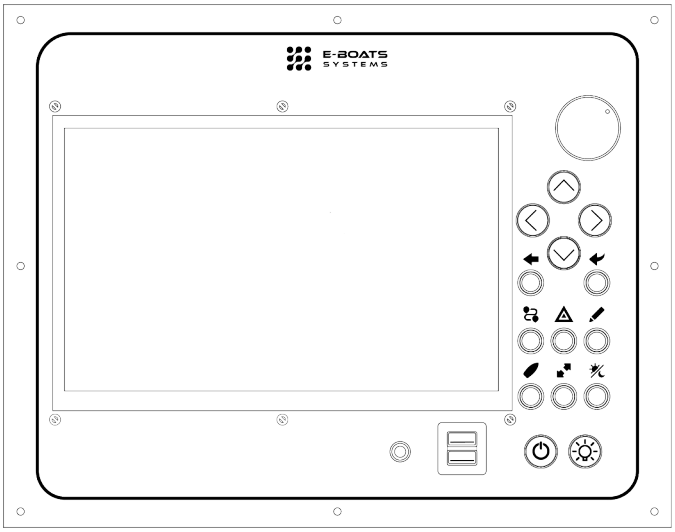
E-BOATS SYSTEMS
Exterior Lighting
Anchor Light
Navigation Light
Running Light
Deck Light 1
Deck Light 2
Auto
Off
Manu
Alarm
Bilge Pump 1
Bilge Pump 2

E-BOATS SYSTEMS
Exterior Lighting
Anchor Light
Navigation Light
Running Light
Deck Light 1
Deck Light 2
Auto
Off
Manu
Alarm
Bilge Pump 1
Bilge Pump 2
USB
12V



PC/MONITOR PANEL

This panel integrates a touchscreen monitor into your boat's control console. Designed for use with our onboard computers, it can be easily adapted to other systems. It includes a rotary knob and push-button interface for PC control—especially optimized for ***OpenCPN***. The touchscreen and button interface communicate via USB without requiring drivers, allowing for effortless **plug-and-play** functionality on **Windows** and **Linux** systems. Power can be supplied via either **5VDC or 12/24VDC**.
Combined with our onboard PC/chartplotter, this panel becomes the ideal companion for managing your boat and navigating with precision.



The panel is equipped with:
- **10.1" IPS LCD Capacitive Touchscreen Monitor** (1024×600 resolution).
- **1 Rotary knob** for PC control.
- **12 Push buttons** for PC control.
- **Power button** with PC connection.
- **Backlight illumination** (Blue).
- **Integrated speakers.**
- **2 USB 3.0 ports**.
- **1 Audio output jack**.
- **1 HDMI port**.
- **1 Micro-USB** port for touchscreen and button interface.
- **DC power input.**

Designed for seamless integration into your boat's dashboard, combining durability, elegance, and a user-friendly installation process. Perfectly complements the rest of our product line.

Panel dimensions: 29.5 cm x 27 cm x 5 cm

Built for durability: those panels features an acrylic front for increased resistance, and every contact is soldered to ensure long-term reliability and durability.
If you need any modifications—such as different amperage, voltage, or backlighting—just let us know your requirements!
We can apply any type of customization to our panels, and if simple modifications aren't enough, we can design fully tailored and custom control panels from scratch, perfectly adapted to meet our clients' needs and ideas.

ON-BOARD PC/CHARTPLOTTER

Here at E-Boats Systems, we firmly believe in open-source code and the user's right to own, modify, and use both software and hardware as they see fit. This philosophy is the foundation of our project, and after months of design, we are pleased to present our open-source onboard PC/chart plotter! This chart plotter is much more than just a chart plotter! It interfaces with all the boat's instruments, is rich in features and pre-installed software to assist you during navigation, and is fully upgradable and modifiable according to the end user's needs!

The system runs on a modified version of '*openplotter*' (Linux), already configured and ready to use, featuring our graphical interface designed to navigate between various applications as easily and intuitively as possible!

We are presenting the '*basic*' version of our PC, ready to be installed and used in the most common scenarios. However, it can be modified to add extra functions or adapt to specific proprietary navigation systems. When contacting us to place an order, explain your configuration and needs. We can integrate new functions into the computer or help you choose them. Check the '*custom panels*' section to find some of the possible functions that can be added!

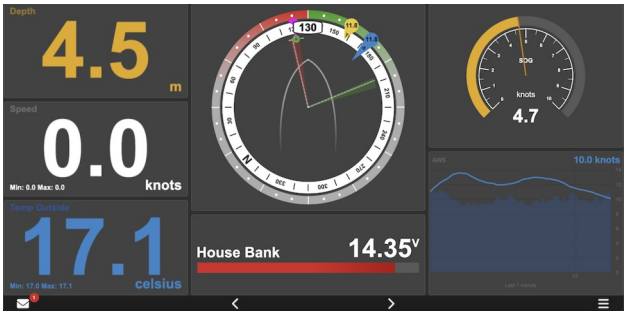
Designed for 12V/24V DC systems, the On-board PC features:

- **Chart Plotter -** Chart a course and track your position using *OpenCPN*, a concise and robust chart plotter navigation software designed to be used at the helm station of your boat while underway. There's also *AvNav* installed as server to have a chart plotter in any device remotely connected to it using a web browser.
- **NMEA 0183** - Connect your NMEA 0183 devices to receive and send data.
- **NMEA 2000 -** Connect your NMEA 2000 network to receive and send data.
- **SeaTalk1 -** Connect your old SeaTalk1 network to receive data (It is possible, upon request, to add support for other communication protocols, such as *SeaTalkNG*.)
- **Weather -** Download and display GRIB files using XyGrib.
- **GNSS -** GPS, GLONASS, Beidou, Galileo receiver.
- **AIS -** Integrated AIS receiver (upgradeable to transceiver).
- **Autopilot -** Ability to control the existing autopilot (via NMEA 0183 and NMEA 2000 or other protocols) and full integration with *PyPilot* (open-source autopilot).
- **Sensors -** It easily connects to all the various sensors on the boat through NMEA protocols, It is also equipped with GPIO inputs to extend its functionality and connect sensors directly to the system.
- **Signal K** - The free and open source universal marine data exchange format.
- **UPS -** Equipped with an uninterruptible power supply to ensures that the system stay safe even when power is turned off or cut unexpectedly.
- **Access point** - Share data with laptops, tablets, phones…
- **Headless** - You can connect the system to a second HDMI monitor on the cockpit or control it through your mobile devices.
- **Open-Source** - Completely upgradable and modifiable to best fit the boat and the user's needs, all controlled with an elegant, intuitive, and *customizable* graphical interface.

On-board Pc Specifications:

Processor:

- Broadcom BCM2711, quad-core Cortex-A72 (ARM v8).
- 64-bit SoC @ 1.5GHz.
- 4, 8 or 16GB LPDDR4 memory.
- 256gb SSD internal storage.
- OpenPlotter operating system



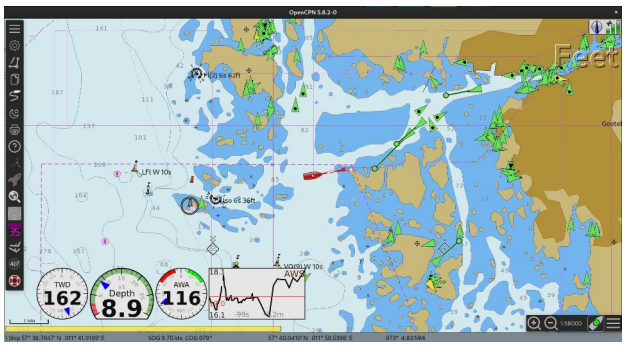
Kip Dashboard

Video:

- 2x HDMI port (up to 4Kp60 supported).

Connectivity:

- 2.4 GHz and 5.0 GHz IEEE 802.11b/g/n/ac wireless.
- LAN, Bluetooth 5.0, BLE.
- GPS, GLONASS, Beidou, Galileo receiver.
- RTL-SDR receiver dual channel reception on 161.975 MHz and 162.025 MHz.
- 4× USB 3.0 ports.
- 1x NMEA 0183 Tx/Rx port.
- 1x NMEA 2000 port.
- 1x SeaTalk1 connection.
- 1x UHF antenna input for AIS
- 1x antenna input for GPS
- 4x GPIO input for expansion



OpenCPN

Power:

- 12V/24V DC input
- integrated UPS uninterruptible power supply.
- Power button port

Pc dimensions: 15cm x 10cm x 5cm

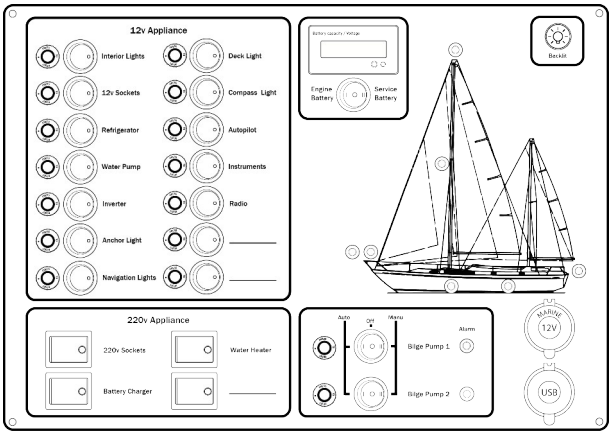
Custom dashboard

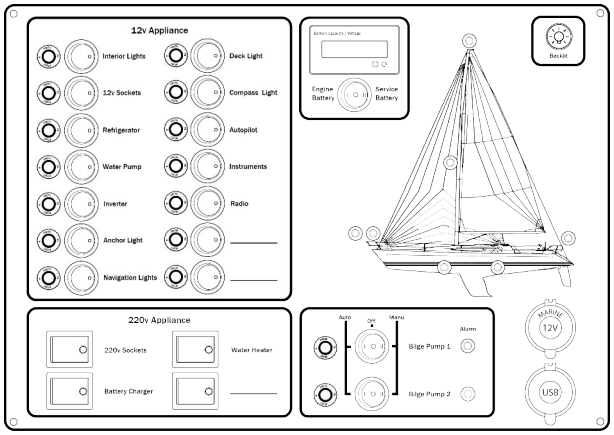
CUSTOM PANELS

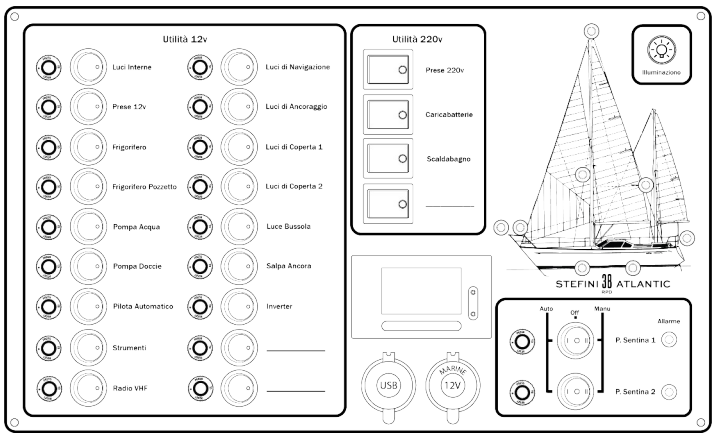
Share your idea, and we'll make it real!

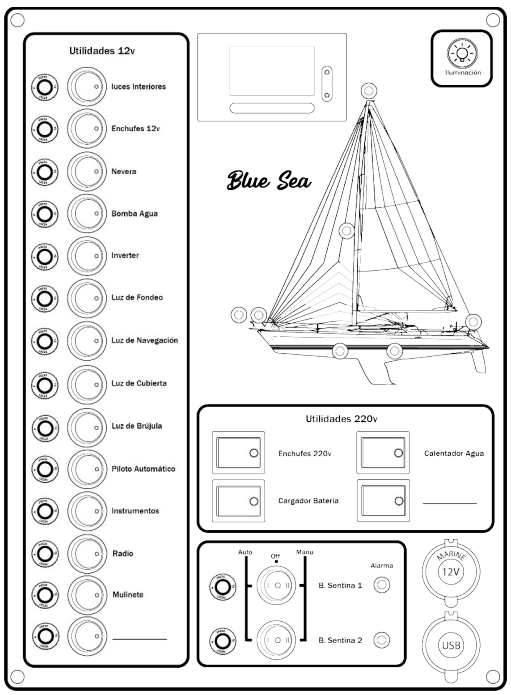
We offer a design, planning, and assembly service for control panels and electrical systems of various types, exactly as you want, starting from modifying existing templates or redesigning the entire plan from scratch according to the needs and desires of the end user!
From designing more classic **analog control** panels to creating **fully automated digital control panels**!
In the shape, size, graphics, and language you prefer!
Contact us, send us a description or even just a hand-drawn sketch of your idea, your setup, and we will take care of the rest! You will speak directly with one of our engineers who will guide you through the design, assembly, and installation process. With a wide range of indicators, switches, various components, and functions available to choose from, the possibilities are truly endless! Check out our catalog and stimulate your creativity by proposing your design to us, and let us help you build something memorable! Each panel is **pre-assembled and wired, ready for installation**!

CUSTOM PANEL TEMPLATES EXAMPLES

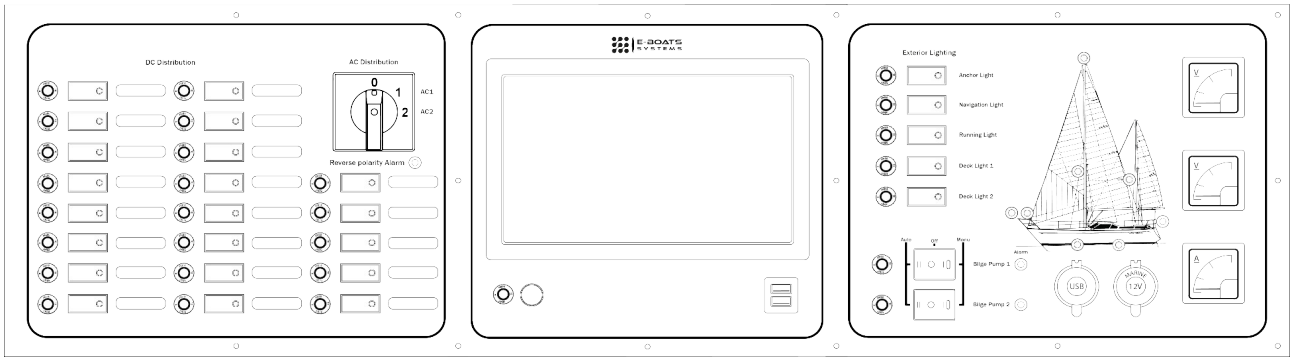




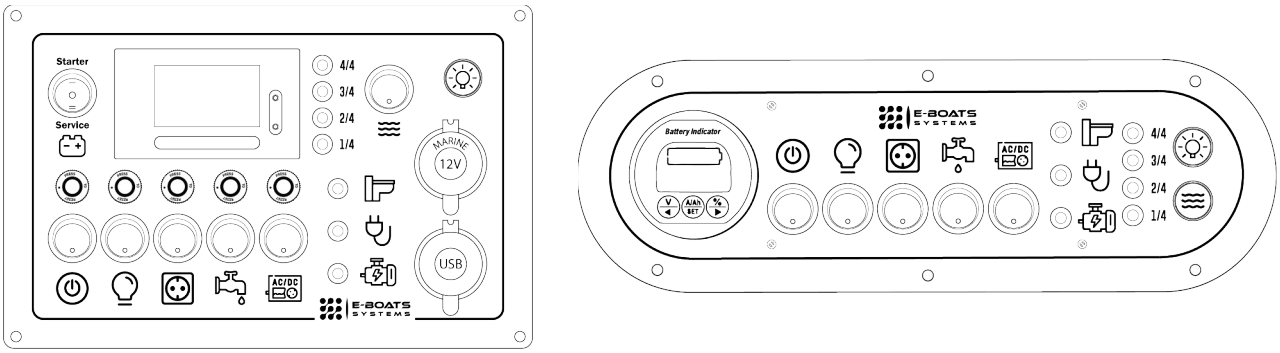




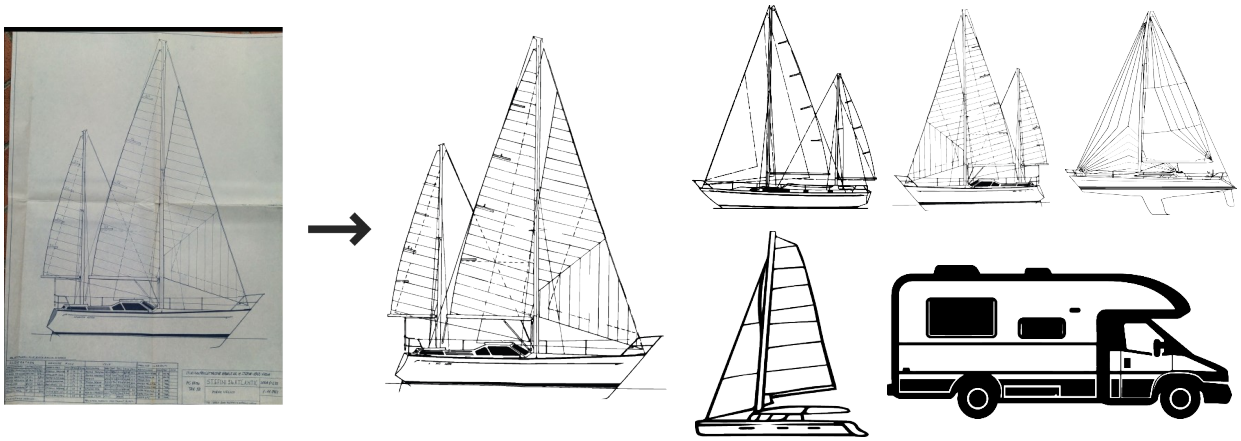
Example templates of control panel for boats, with DC/AC distribution and bilge pumps with alarm, smart voltmeter, 12V and USB outputs, backlighting, different languages, shapes and illustrations with the boat's name.



Example template of a complete control panel for boats, with an integrated on-board PC, analogue voltmeters, AC source selector switch, reverse polarity alarm, indicator LEDs, 12V/USB outputs, and 12VDC and 220VAC distribution.



Example template of control panels for motorhomes and campers, featuring a water level sensor and service indicator LEDs, backlighting, smart voltmeter, battery selector, with visible safety breakers and 12V outputs (and without).



Examples of vehicle drawings: you can choose one of the available options or send us a drawing or photo of your vehicle, and we will take care of digitizing the image!

Built as show, customized according to your specifications, or completely redesigned! Send us even a hand-drawn sketch of your concept, and we will take care of the rest!

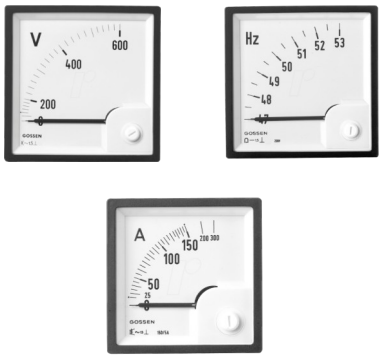
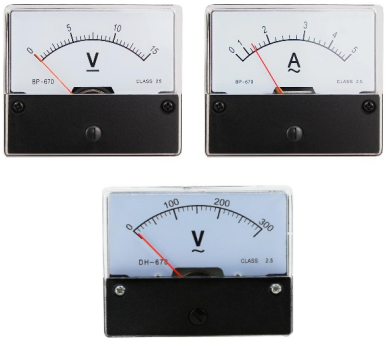
CONTROL PANEL ACCESSORIES

In the process of designing a system, a wide range of accessories and different options are available to bring the end user's ideas to life. The various options differ in the functions or style of the final product, for the creation of a control panel, distribution panel, or a computerized system that perfectly fits their vehicle and needs!
Below is a list of the various accessories currently available. However, if you wish to add any type of accessory or function not present in the catalog, do not hesitate to contact us! We are always ready to experiment with new materials, products, or challenges! Because we want the customer to be as satisfied as we are with the process!

It's possible to add any type of functionality your system may need, including:

- Winch control
- Anchor windlass control
- Bow/stern thruster control
- Generator management
- Ventilation control, etc.
- LED dimmers
- Digital control of utilities
- Bilge pump alarm
- Engine alarms
- Engine monitoring instruments
- Water tank level meters
- Battery monitors
- Ammeters and voltmeters
- NMEA2000 display monitor
- Anti-theft systems
- Fire alarm systems
- Sensors for data collection
- Remote monitoring and control
- Integrated chartplotter/PC
- And more!

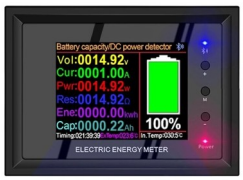
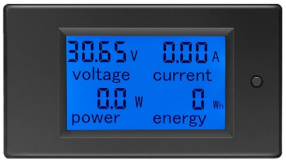
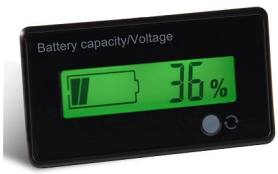
Analogue meters

99T1 Analogue Meters Available for reading Voltage, Amperage, and Frequency (various sizes and measurement ranges available). With backlighting option. Measurement ranges available: Voltage DC 0-15V DC0-30V AC 0-250V Amperage DC 15/30/50/80/100/200 AC 15/30/40/50A Frequency AC 45-65Hz Dimensions available: small 48mm x 48mm medium 72mm x 72mm	
44C2 Analogue Meters Available for reading Voltage, Amperage, and Frequency (various measurement ranges available). With backlighting option. Measurement ranges available: Voltage DC 0-15V DC0-30V AC 0-250V Amperage DC 15/30/50/80/100/200 AC 15/30/40/50A Frequency AC 45-65Hz Dimensions: 70mm x 40mm	

55UC Analogue Meters Available for reading various parameters, in white or black with backlighting, each indicator comes complete with a sensor. Available indicators: -Engine oil pressure indicator -Water temperature indicator -Fuel level indicator -Water tank level indicator -Grey water tank level indicator -DC voltmeter (8/16V or 16/32V) Dimensions: 52mm	

Digital meters

Victron Energy BMV-712 Smart Battery Monitor In addition to the basic display options such as voltage, current and ampere-hours consumed, it s also shows charging status, time remaining and power consumption in Watts. Including 500A shunt, Bluetooth communication (also without Bluetooth option) and relay control. Input range: 9-90VDC Working current: up to 500A Dimensions: 69mm	
GC97 Smart Battery Coulometer In addition to the basic display options such as voltage, current and ampere-hours consumed, it s also shows charging status, time remaining and power consumption in Watts. It also includes a TTL serial port output for data reading and a 300A shunt. Input range: 0-200VDC Working current: 300A Dimensions: 88mm x 52mm	
Junctek KG160F Smart Battery Monitor In addition to the basic display options such as voltage, current and ampere-hours consumed, it s also shows charging status, time remaining and power consumption in Watts. Including 400A or 600A shunt and Bluetooth communication. Input range: 8-120VDC Working current: up to 600A Dimensions: 100mm x 67.8mm	
TF03K-A Smart Battery Monitor In addition to the basic display options such as voltage, current and ampere-hours consumed, it s also shows charging status, time remaining and power consumption in Watts. It also includes a 350A or 500A shunt. Input range: 8-120VDC Working current: up to 500A Dimensions: 100mm x 61mm	

Atorch DT24PW Smart Battery Monitor In addition to the basic display options such as voltage, current and ampere-hours consumed, it s also shows charging status, time remaining and power consumption in Watts. Including shunt up to 1000A, Bluetooth communication, relay control and a large 2.4-inch high-definition wide color screen. Input range: 8-240VDC Working current: up to 1000A Dimensions: 85.7mm x 63mm	
TR16 Smart Battery Monitor It display options such as voltage, current, ampere-hours consumed and power consumption. Including 350A shunt. Input range: 8-80VDC Working current: up to 350A Dimensions: 59mm	
PZEM-051 Energy Meter It display options such as voltage, current and power consumption. It can be configured to work with both DC and AC systems. Including backlight and 100A shunt or 100A hall sensor. Input range: 6-100VDC 80-260VAC Working current: 100A Dimensions: 89.6mm x 49.6mm	
KWS AC-301 AC Energy Monitor It display options such as voltage, current, ampere-hours consumed and power consumption of AC systems. Including 100A hall sensor. Input range: 50 - 300VAC Working current: 100A Dimensions: 79mm x 37.5mm	
D52-2066 AC Energy Monitor It display options such as voltage, current, ampere-hours consumed and power consumption of AC systems, with Din Rail mounting. Input range: 40-300VAC Working current: 100A Dimensions: 80mm x 54mm	
Digital voltmeter Simple battery capacity tester/voltmeter. White, blue or green backlighting options. Input range: 11-84VDC Dimensions: 61.3mm x 33.3mm	

Generator control

Mebay DC10G Generator controller Designed for small diesel, gasoline, and gas generator sets. It provide control and monitoring of your genset's performance. Equipped with starting key and a 4-digit LED display to show various informations in real-time with multiple alarm protection functions. Dimensions: 67mm x 67mm	
Mebay DC20D MKII Generator controller Designed for small diesel, gasoline, and gas generator sets. It provide control and monitoring of your genset's performance. Equipped with two group of programmable relay outputs and a led tube screen to displays various faults in real-time. The controller include the ability to stop the genset automatically when it encounters a fault, ensuring the safety of your equipment. Dimensions: 78mm x 78mm	
Mebay DC30T Generator controller Designed for small diesel, gasoline, and gas generator sets. It provide control and monitoring of your genset's performance. Equipped with an LCD screen to displays various faults in real-time. The controller include the ability to stop the genset automatically when it encounters a fault, ensuring the safety of your equipment. Dimensions: 106mm x 86mm	

Switches and fuses

Blue Sea Systems Magnetic Circuit Breaker switch High-quality circuit breakers, combining switching and circuit protection into a single device. Available with single or double pole to suit different types of systems. Input range: 5-65VDC, 120-240VAC Working current: 5A, 10A, 15A, 20A, 25A, 30A, 40A, 50A Switch type: Magnetic hydraulic breaker switch Dimensions: 76mm x 25mm	
Customized Metal Push Button Switch Customizable metal switches, waterproof, available in 2 colors (black or silver), with 2 distinct functions: momentary (self-reset) or latching (self-locking), and with or without LED illumination (various colors). It is possible to customize the switch symbol by choosing from the available symbols or creating new patterns upon request. Input range: 3-6VDC (5A), 12-24VDC (5A) 220VAC (3A) Switch type: Push button switch 1NO1NC Dimensions: 16, 19 or 22mm	

Metal Knob Rotary Selector Switch Metal knob selector switches, available in 2 colors (black or silver), with 2 distinct functions: momentary (self-reset) or latching (self-locking), along with 2 available positions (ON-OFF, ON-OFF-ON) with or without LED illumination (various colors). Input range: 3-6VDC (5A), 12-24VDC (5A), 220VAC (3A) Switch type: Knob switch 1NO1NC, 2NO2NC Dimensions: 16, 19 or 22mm	
Plastic Waterproof Rocker Switch Plastic rocker switches, waterproof with LEDs in various colors. While the 'round' switches are suitable only for 12VDC systems, the 'square' models are available for DC and AC systems up to 250V. Input range: "round models" 12VDC 20A "square models" 250VAC 16A Switch type: Rocker switch ON-OFF Dimensions: "round models" 23mm "square models" 31mm x 20mm / 31mm x 25mm	
Plastic Waterproof Rocker Switch 3 Positions Plastic rocker switches, waterproof with 3 positions, suitable for AC and DC systems up to 125VAC. Input range: 12VDC 20A 125VAC 10A Switch type: Rocker switch ON-OFF-ON Dimensions: 23mm	
Aluminium Waterproof Rocker Switch Aluminium rocker switches, waterproof with LEDs in various colors, suitable for AC and DC systems up to 4000W resistive load. Input range: 12-24VDC 25A 125VAC 20A, 250VAC 16A Switch type: Rocker switch ON-OFF Dimensions: 15mm x 30mm	
Aluminium Waterproof Rocker Switch 3 Positions Aluminium rocker switches, waterproof with 3 positions and LEDs in various colors, suitable for AC and DC systems. Input range: 12-24VDC 15A 125-250VAC 20A Switch type: Rocker switch ON-OFF-ON Dimensions: 25mm x 30mm	

Rotary Selector Switch 2-8 Poles Rotary power source selector switches, available with 2 to 8 poles suitable for AC and DC systems. Input range: up to 690VAC Working current: 5A, 10A, 20A, 25A, 32A, 63A, 125A 160A Switch type: Knob switch 2-8 poles Dimensions: 48mm x 48mm / 64mm x 64mm / 88mm x 88mm	
Battery Disconnect Switch with Removable Key Battery disconnect switches with removable keys suitable to quickly disconnect the DC battery from the system. Input range: 12VDC (300A) - 24VDC (150A) Switch type: Battery switch Cut-Off Dimensions: 57.5mm	
Battery Disconnect Switch 2 or 4 positions Battery disconnect switches with 2 positions (ON-OFF) or 4 positions (1-2-Both-OFF) suitable to quickly disconnect the DC battery from the system or connect two different batteries in parallel. Input range: 12VDC (300A) - 24VDC (150A) Switch type: Battery switch Cut-Off Dimensions: 69mm x 69mm	
Rotary Potentiometer Rotary Potentiometers widely usable in various fields, to control LED brightness, fan speed, or adjust the power of different electrical devices, available with aluminium or plastic knob caps. Input range: up to 50VDC Resistance range: 10kΩ - 1MΩ Switch type: Rotary potentiometer Dimensions: 25mm	
Resettable Circuit Breaker Resettable circuit breakers, suitable for both AC and DC systems, are equipped with high sensitivity and overload protection to safeguard the electrical system from malfunctions and overloads, ensuring the safety of the system in use. Being resettable, it is possible to quickly restart the system by pressing a button, eliminating the need to replace fuses. Available in black or silver, with or without a protective cap. Input range: up to 50VDC or up to 250VAC Working current: 3A, 4A, 5A, 8A, 10A, 15A, 20A, 25A, 30A Switch type: Push button Thermal circuit breaker Dimensions: 35mm	

Panel Mounting Fuse Holder Fuse holders for 6x30mm glass tube fuses, suitable for protecting the electrical system from short circuits and overloads, suitable for DC systems up to 30A. Input range: up to 50VDC or up to 250VAC Working current: up to 30A Dimensions: 16.8mm	

Indicators and sockets

LED indicator LED indicators suitable for use in both AC and DC electrical systems. They can be used to indicate the operation of an electrical device or to signal an anomaly. They are available in various colors and intensities, with plastic or metal holders. Input range: up to 70VDC or up to 380VAC Dimensions: 9.5mm	
DC Siren Buzzer Alarm Audible alarm to signal an anomaly in a utility or the electrical system in use, suitable for use in DC systems. It produces a sound of 75dB. Input range: 3-24VDC Dimensions: 22mm	
12-24VDC Socket DC socket output with waterproof and dustproof cover. Input range: 12-24VDC Dimensions: 37mm	
5V Dual USB Charger USB chargers for systems up to 32VDC, with waterproof and dustproof cover. Equipped with 2 USB ports with fast charging and LED backlighting in various colors. Excellent for charging devices such as smartphones, tablets and for powering 5V devices. Input range: 12-32VDC Dimensions: 37mm	

5V Dual USB Charger with USB Type-C USB chargers for systems up to 32VDC, with waterproof and dustproof cover. Equipped with regular USB port and a USB Type-C port, both with fast charging and LED backlighting in various colors. Excellent for charging devices such as smartphones, tablets and for powering 5V devices. Input range: 12-32VDC Dimensions: 37mm	

DISTRIBUTION PANEL ACCESSORIES

List of accessories and materials for designing the electrical distribution panel, which can be developed on the back of the control panel or separately, depending on the installation requirements.

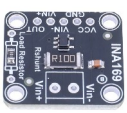
DIN Rail Bars For the construction of our distribution panels, we often rely on this type of standard for the placement of connectors, terminals, or devices such as contactors and circuit breakers.	
NEMA Enclosure Boxes We use NEMA enclosures primarily for the design of distribution panels for ships and boats. However, they can be used in various fields, such as protecting onboard devices and the control panel. Available in different sizes and models to best suit every situation, these enclosure boxes are dustproof and waterproof, ensuring greater durability even in the most challenging conditions.	
Magnetothermal and Differential Circuit Breakers For the protection of the electrical system and the user, we widely use these types of circuit breakers, especially for 220VAC electrical installations. Various models with different amperages are available, which will be appropriately chosen during the system design according to the specific case.	
Modular AC Contactors These types of contactors can be applied in various fields, especially in 220V systems, for the automation of different types of utilities, such as the automatic switching of a power source or the automatic activation of a certain utility. Also available in various models and amperages, they will be specifically chosen during the system design according to the specific cases.	

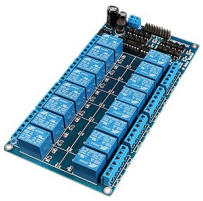
DIN Rail Terminal Blocks We widely use these types of terminals in our installations, allowing for a safe, simple, clean, and organized installation of our systems in your vehicle. Available in various models and sizes with different amperages and functions, they will also be specifically chosen during the design phase to suit the current case.	
Shunt Resistors During the design of our control systems, we use this type of resistors in conjunction with ammeters, onboard computers, and battery monitors. They are available in various models and amperages, used to measure the flow of electricity in the circuit. They will also be specifically chosen according to the case to best suit your needs.	
12/24VDC Relays During the design of our systems, we extensively use relay switches, which can be applied in different fields: both for the automation of certain types of utilities and for the activation from the control panel of high-amperage DC utilities, such as an inverter or electric winch. These will also be specifically chosen during the design phase based on the intended use.	
Power Distribution Panel with fuses We use these types of distribution panels especially in the design of small and simple control panels, such as those found in a camper, where they prove to be an economical and effective choice in certain specific cases. Available in various sizes and models, they will be specifically chosen during the design phase according to the specific case.	

ON-BOARD PC ACCESSORIES

In designing the on-board computer, it is truly possible to unleash your creativity, from creating a simple chart plotter to a fully automated digital control system. One of our engineers can advise you on the optimal configuration based on your needs.
The system can be enhanced with specific communication protocols and sensors to interface with the exterior, and of course, it is *open-source*! For a more complete and detailed list of options, visit our website!

Single-Board Computer (SBC) Single-board computers are boards that encompass the entirety of a computer. Chosen for their incredible power combined with low energy consumption and compact size, they are the heart of our On-Board PCs. We work with various types of SBCs that offer different possibilities depending on the needs and desires of the end user. Each SBC comes pre-installed with either the LINUX or WINDOWS operating system, preconfigured for use and installation in your vehicle with the E-Boats Systems navigation interface!	

Touchscreen Monitors In the design of your onboard system, you can choose from a wide selection of touchscreen monitors, ranging from classic 16:9, from 3.2” to 17”, to ultrawide 18:5 monitors of various sizes, both for interior and exterior use in a marine environment. The idea is to create a system tailored to the boat and the end user, functional and reliable.	
OLED Display Modules It is possible to use OLED modules both in the design of the onboard computer and in the design of the control panel. They are available in various sizes and shapes (including round screens) and can be configured through a microcontroller to display values of a specific function, such as the status of the battery, solar panels, tanks, speed and depth of the boat, etc. Propose your idea, and we will help you realize it!	
Telecommunication and Positioning Protocols It is possible to add various types of communication and positioning protocols such as AIS, GPS, VHF, 4G, etc., through modules and devices. It is possible to create different autonomous systems or a single all-in-one system complete with everything necessary to interface with the world and assist you in navigation and everyday life!	AIS GPS 4G+
Boats Communications standards To make our system fully compatible with your boat, we equip our systems with NMEA0183 and NMEA2000 communication protocols as standard. However, it is also possible to integrate proprietary communication protocols such as SeaTalk1 or SeaTalkNG.	SeaTalkng NMEA2000
I2C Sensors Devices We work with a wide variety of I2C sensors to create small independent systems in conjunction with OLED modules, or to integrate them into the on-board computer! Various sensors are available to interface with and monitor the surrounding environment: from battery monitoring to humidity sensors, temperature sensors, proximity sensors, compass, air quality, etc. Contact us to receive a complete list of possibilities!	 
Panel Mount Connectors We equip our on-board computers with connectors directly mounted on the panel or in NEMA enclosures (depending on the case) to easily connect to the boat’s antennas and instruments. Additionally, some can offer access to the computer such as USB ports, SIM card slots, or SD card slots, available with or without waterproof covers, which will be chosen according to the needs and configurations at the time.	

UPS (Uninterruptible Power Supply) It is possible to equip the on-board computer with uninterruptible power supplies to ensure the system's operation even in case of electrical anomalies, as well as to provide additional protection for the system in case of sudden power interruptions.	
Relay Modules Various models of relay modules with different amperages and channels are available, which can be integrated into the system to automate all sorts of electrical utilities on board and to control and monitor them through the on-board computer, and *eventually*, through your smartphone or tablet, locally or *remotely*! Home automation can be on board… if you think big!	

Our onboard computers are the core of our project.
They are open-source systems that can be built according to the needs and desires of the end user, from simple chartplotters with integrated AIS and GPS, with the ability to communicate with the boat's instruments, to a true central system capable of monitoring and controlling every aspect of the boat, bringing home automation on board!

Do you want to be able to digitally control all the electronic devices on the boat? And possibly do it comfortably from your smartphone even remotely? You are in the right place! Tell us about your project and we will help you make it a reality! Here at E-Boats Systems, we like to think and design big. This field is our passion, which is why the more ambitious the project, the more excited we are about it!

In the system design, especially for more complex systems, it is possible to design a central system in communication with other independent low-energy mini-controllers designed to perform specific functions independently, such as an anti-theft or fire alarm system, video surveillance, or data collection of the external environment (such as humidity, pressure, temperature, speed, depth, etc.). In short, think big! We would be thrilled to help you make it a reality!

Each system can be based on either Windows or Linux and will clearly be accompanied by our graphical interface to make the entire system as simple and intuitive as possible for everyday use!

Thanks to their open-source nature, our systems are truly future-proof! It is relatively simple to replace most components with newer ones, as well as the sofware, entirely at the user's discretion! Making it effectively a product that enters your boat to stay! Built for the sea, inspired by you, made for your boat.
Share your idea, and we'll make it real!

E-BOATS SYSTEMS

WWW.EBOATSYSTEMS.COM

Visit our website to find the latest product updates and news! Additionally, for any type of request, do not hesitate to contact us! We would be happy to answer your questions! A member of our team will personally handle your case, guiding and assisting you throughout the entire development and installation process!

www.eboatsystems.com

info@eboatsystems.com

eboats.systems

eboats_systems

+41 77 529 55 93

E-BOATS SYSTEMS

CUSTOMISED ELECTRIC SYSTEMS FOR NAVIGATION,
AT SEA AND ON THE ROAD.

SHARE YOUR IDEA
AND WE'LL MAKE IT REAL!

E-BOATS SYSTEMS

WWW.EBOATSYSTEMS.COM

www.EBoatSystems.com

P.O Box: E-Boats Systems
Av. du Général-Guisan 75
1800 Vevey, Switzerland
Whatsapp: +41 77 529 55 93
E-Mail: info@eboatsystems.com

Copyright © 2025 Eboatssystems, All Rights Reserved.

Distributed By: