

# ELECTRICAL SWITCHBOARDS

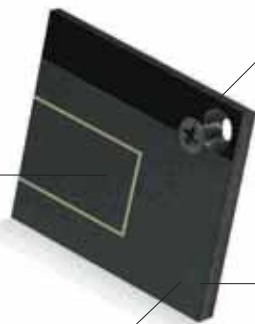
## PROFESSIONAL MODULAR SYSTEM

### Total Adaptation

Modular electrical switchboards combine the classical beauty with the most advanced microprocessor technology. EnerNaval Ibérica offers you a complete design of your panel, including the wiring if required.



Self-adhesive labels in English, French, Spanish or any other languages



Fixing screws included

4mm thickness

Anodised aluminium modules

The modular system offers the possibility to have any possible combination so that your boat will have all the electrical needs covered



Solid fixing system consisting of + and T modules fix, joining panels in the rear part to mount modules between each other. Any combination in possible. Strong system



Series 0 - 240x260mm



Series 1 - 240x130mm



Series 3 - 120x65mm



Series 2 - 120x130mm



Series 4 - 60x65mm



Very large range of measuring and control instruments, automatic circuit breakers, switches, push-buttons, indicators and any other parts

**OACS:** Complete panel for an AC system (25 or 40A). Panel composed by 6 double pole circuit breakers, analogue instruments for Volts and Amps, an AC selector and shore protection



# DC Circuit Breakers

## Protection + Switch

Circuit breakers are used to protect the electrical installation from eventual overload or short-circuits. They can also be used as a switch to open and close a circuit.

Please, specify the intensity depending on the load (lights, radar, anchor winch, bilge pump, etc.) and check your equipment to know the amperage you need. Available intensities up to 100A.

### Single pole DC circuit breakers, toggle style

**1DCD** (240x130x70)



- Composed by 10 single pole toggle style circuit breakers. Each circuit has a green LED indicator

**DI04**



- Single pole breaker, toggle style. Available ratings from 1A... 100A

**2DC5** (120x130x70)



- Composed by 5 single pole toggle style circuit breakers. Each circuit has a green LED indicator

**LED indicators**



- BPI13** - LED indicator 4,4mm Ø, voltage 10... 30V DC, red colour
- BPI14** - LED indicator 4,4mm Ø, voltage 10... 30V DC, green colour
- BPI15** - LED indicator 4,4mm Ø, voltage 10... 30V DC, yellow colour

*In 10 units bag*

# ELECTRICAL SWITCHBOARDS

## Single pole DC circuit breakers, toggle style

3DC2 (120x65x70)



- Composed by 2 single pole toggle style circuit breakers with the corresponding green LED indicators

3DCU (120x65x70)



- Composed by 1 single pole toggle style circuit breaker with the corresponding green LED indicator
- Very useful module for the anchor winch

## Double pole DC circuit breakers, toggle style

1DBC (240x130x70)



- Composed by 5 double pole toggle style circuit breakers with the corresponding green LED indicators
- Ideal module for aluminium boats. The double pole circuit breakers cut the negative and positive poles from the battery in order to prevent the galvanic corrosion
- Available ratings from 1A to 100A

DI05

- Double pole circuit breaker, toggle style
- Available in ratings from 1A to 100A



3DBC (120x65x70)



- Composed by 1 double pole toggle style circuit breaker with the corresponding green LED indicator
- Available in ratings from 1A to 100A



All the modules indicated in this catalogue are supplied with the necessary fixing screws

# DC circuit breakers

## Rocker style

**DI32**



- Single pole rocker style circuit breaker  
Available ratings from 1A to 50A

**DI33**



- Double pole rocker style circuit breaker  
Available ratings from 1A to 50A

**DI09**



- Rocker style circuit breaker  
Ratings: 3A to 25A

**1RCD (240x130x70)**



- Composed by 10 single pole rocker style circuit breakers.  
Each circuit has green LED indicators
- Available ratings from 1A to 50A

**1RBC (240x130x70)**



- Composed by 5 double pole rocker style circuit breakers.  
Each circuit has green LED indicators
- Available ratings from 1A to 50A

**25RE (120x130x70)**



- Composed by 5 single pole rocker style circuit breakers.  
No LED indicators
- Available ratings from 3A to 25A

**3RC2 - 3RC1 (120x65x70)**

**3RC2**



- Composed by 2 single pole, rocker style, circuit breakers and the corresponding LED indicators.  
Available from 1A to 50A

**2RC5 (120x130x70)**



- Composed by 5 single pole, rocker style, circuit breakers and 5 green LED indicators
- Available ratings from 1A to 50A

**3RC1**



- Composed by 1 single pole, rocker style, circuit breaker and the corresponding LED indicator.  
Available from 1A to 50A

# ELECTRICAL SWITCHBOARDS



## AC Circuit Breakers

### Protection + Switch

AC circuits must be protected with circuit breakers which assure a quick trip in case of short-circuit comparing with classical protections. The single pole AC breakers allow having more breakers per module. The double pole AC breakers offer a total security by protecting phase and neutral lines, which is essential for aluminium boats.

### Single pole AC circuit breakers, toggle style

#### 2DA5 (120x130x70)



- Composed by 5 single pole toggle style circuit breakers. Each circuit has amber NEON indicator
- Available ratings from 1A to 100A

#### D104



- Single pole breaker, toggle style. Available ratings from 1A to 100A

#### BPI06



- Amber NEON indicator, 5.5mm Ø, voltage 230V AC. In ten units bag

#### 1DAD (240x130x70)



- Composed by 10 single pole toggle style circuit breakers. Each circuit has amber NEON indicator
- Please, specify the intensity depending on the load (microwave, fridge, TV, air conditioning, battery charger, etc)
- Check your equipment to determine the amperage required
- Available ratings from 1A to 50A

#### 3DA2 (120x65x70)



- 2 single pole toggle style circuit breakers with the corresponding amber NEON indicators. Available ratings from 1A to 100A

#### 3DAU (120x65x70)



- 1 single pole toggle style circuit breaker with the corresponding amber NEON indicator. Available ratings from 1A to 100A

# Double pole AC circuit breakers, toggle style

**D105**



- Double pole circuit breaker, toggle style.  
Ratings: 1A to 100A

**BPI06**



- Amber NEON indicator, 5.5mm Ø, voltage 230V AC.  
In ten units bag

**1DBA (240x130x70)**



- Composed by 5 double pole toggle style circuit breakers. Each circuit has amber NEON indicator
- Available ratings from 1A to 100A
- Double pole breakers cut phase and neutral in order to increase the security in the boat respecting the electrical safety rules

**3DBA (120x65x70)**



- Composed by 1 double pole toggle style circuit breaker with the corresponding amber NEON indicator
- Available ratings from 1A to 100A



All the modules indicated in this catalogue are supplied with the necessary fixing screws

The product information published in this catalogue is subject to change without notice. Please, visit [www.enerval.es](http://www.enerval.es) for updates



# ELECTRICAL SWITCHBOARDS

## AC Circuit breakers

### Protection + Switch

#### Rocker style

DI32



- Single pole rocker style circuit breaker. Available in ratings from 1A to 50A

DI33



- Double pole rocker style circuit breaker. Available in ratings from 1A to 50A

1RAD (240x130x70)



- Composed by 10 single pole rocker style circuit breakers. Each circuit has amber NEON indicator
- Available in ratings from 1A to 50A

1RBA (240x130x70)



- Composed by 5 double pole rocker style circuit breakers. Each circuit has amber NEON indicator
- Available in ratings from 1A to 50A

2RA5 (120x130x70)



- Composed by 5 single pole rocker style circuit breakers. Each circuit has amber NEON indicator
- Available in ratings from 1A to 50A

3RA1 - 3RA2 (120x65x70)

3RA1



- Composed by 1 single pole, rocker style, circuit breaker with the corresponding amber NEON indicator. Available in ratings from 1A to 50A

3RA2



- Composed by 2 single pole, rocker style, circuit breakers with the corresponding amber NEON indicators. Available in ratings from 1A to 50A



# DC switches

## Direct current

Switches allow opening and closing circuits.  
Protection is assured by a fuse installed in the panel (only for panels 1RSF and 2RSF)

### 1RSF (240x130x80)



- Composed by 12 single pole rocker style switches (max. intensity 10A), with individual 5x20mm fuses and corresponding fuse holder. Each circuit has green LED indicator

### 2RSF (120x130x80)



- Composed by 12 single pole rocker style switches (max. intensity 10A), with individual 5x20mm fuses and their corresponding fuse holder. Each circuit has green LED indicator

### IK01



- Single pole rocker style switch (10A) for 1RSF and 2RSF modules

### Led indicators



- BPI13 - LED indicator 4,4mm Ø, voltage 10...30V DC, red colour
- BPI14 - LED indicator 4,4mm Ø, voltage 10...30V DC, green colour
- BPI15 - LED indicator 4,4mm Ø, voltage 10... 30V DC, yellow colour

*In 10 units bag*

### EV-PF-O6.026/H



- Fuse holder for 5x20mm DIN fuses

# ELECTRICAL SWITCHBOARDS

## 34CO (120x65x70)



- Composed by 4 double pole toggle style switches (max. intensity 15A) and 4 green LED indicators

## 2CO8 (120x130x70)



- Composed by 8 double pole toggle style switches (max. intensity 15A) and 8 green LED indicators

## Switches



- IT03 - 1P Push-button switch (ON)-OFF-(ON)
- IT04 - 1P Switch/Push-button switch ON-OFF-(ON)
- IT05 - 1P Switch ON-OFF-ON
- IT06 - 1P Push-button switch (ON)-OFF
- IT07 - 1P Switch ON-OFF
- IT08 - 2P Push-button switch (ON)-OFF-(ON)
- IT09 - 2P Switch/push-button switch ON-OFF-(ON)
- IT10 - 2P Switch ON-OFF-ON
- IT11 - 2P Push-button (ON)-OFF
- IT12 - 2P Switch ON-OFF
- TU01 Black 12mm Ø nut for IT series switches
- TU05 Waterproof nut for IT series switches (front waterproof)
- IP01 - 1P Push-button switch (ON)-OFF
- IP02 - 2P Push-button switch (ON)-OFF

## 2CON and 2INE (120x130x70)



### 2CON

- Composed by 6 double pole toggle style switches (max. intensity 15A) and 6 green LED indicators

### 2INE

- Composed by 6 double pole toggle style switches (max. intensity 15A) and 6 green LED indicators

## AC/DC switches

### 3CON and 3INE (120x65x70)



#### 3CON

- Composed by 3 double pole toggle switches, 15A rated. It can also be used for AC circuits

#### 3INE

- Composed by 3 single pole toggle switches, 15A rated. It can also be used for AC circuitsA

### 4CON and 4INE (60x65x70)



#### 4CON

- Composed by 2 double pole toggle switches, 15A rated. It can also be used for AC circuits

#### 4INE

- Composed by 2 single pole toggle switches, 15A rated. It can also be used for AC circuits