

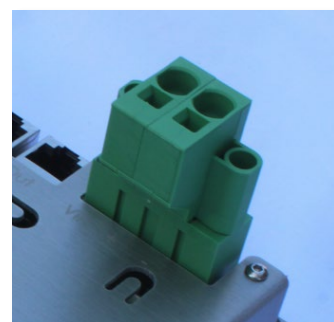
Features and key points

The **ShipPower8DC** module **protects, drives and controls 8 DC circuits in a ShipHeart™ system.**

Installed in the position of your choice on board, it is connected in a matter of seconds and requires no configuration to be recognized by the ShipBase module to which it is connected. Its position on the bus distinguishes it from other modules, and the termination resistors are automatically adjusted according to this new configuration.

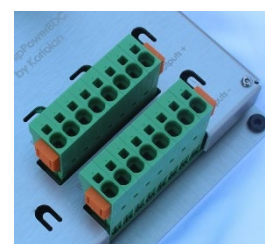
Powered by a **12 or 24V battery pack, it controls, measures and protects 8 bipolar circuits.** Each can drive a load of up to 25A, or even 40A using a second circuit as back-up. Their control mode is up to you: On-Off, progressive On-Off or dimming to adapt to all your loads and maximize on-board comfort.

The supply voltage and current consumed by each circuit are continuously measured, so as to know precisely the energy consumed by the circuit. But because safety on board is not an option, **each circuit is protected, in addition to this software disjunction, by two other redundant systems:** an electronic protection and, in the event of the 2 previous protections failing simultaneously, a fuse.



And if, despite all these precautions, a breakdown should occur, the ShipPower8DC has been designed to ensure that your equipment can still be used. To this end, it includes **switches that allow each circuit to be controlled in manual mode:** without any software intervention. And because it can be installed in hard-to-reach trunks, it even comes with an extension connector enabling all or some of these emergency manual controls to be moved a few meters.

Last but not least, **all connections are made on plug-in, polarized, lockable and spring-loaded connectors,** ensuring rapid connection without the need for special tools and, above all, insensitive to vibration and sea air.



Specifications

Power supply

Voltage	9 - 32V DC
Current	50A permanent max.
Connections	2-point plug-in terminal block
Conductor cross-section	0.75-16mm ² (AWG18-5)

Circuits

Number	8
Maximum current per circuit	25A [40A with back-up circuit].
Control mode	On-Off, Progressive On-Off, Dimmer
Connectors +	8-pin plug-in terminal block [lock on No. 8 socket].
Connectors -	8-pin pluggable terminal block [lock on No. 1 subbase].
Conductor cross-section	0.2-10mm ² (AWG24-7)

Measures

Supply voltage	9 - 32VDC	± 0.5%
Current for each circuit	0 - 25A	± 0.5%
Module temperature	-10°C - +70°C	± 0.1°C

Protections

Circuit current	Configurable, from 0 to 25A Electronic trip if short-circuit 30A fuse
Module current	Load shedding if > 50A for 10s
Supply voltage	Low and high threshold detection
Short circuit on + terminal	Detection on Off circuits
Reverse polarity	Electronic module protection

Manual controls

Manual mode selection	Lever switch on module
Circuit control	8 On-Off switches on module
Manual override type	On-Off - Fuse protection

Manual override extension	Via HE10 connector (< 2m)
ShipBase information	Return to manual mode + status of each circuit

Information LEDs (in ascending order of priority)

Double blue flash (4s)	Optimum operation
Double yellow flash (2s)	≥ 1 short circuit at + battery
Double red flash (2s)	≥ 1 circuit breaker or load shedder
Red flashing (1s)	Power supply undervoltage
Fuchsia flashing (0.5s)	Module in Manual mode
8 white flashes (1s)	Location from ShipBase
Alternating red/green (1s)	In and Out cable inversion

Consumption

On + battery	12mA
On K-Bus - normal mode	8mA
On K-Bus - standby mode	800µA

K-Bus extension bus

Number of ShipPower8DC	64 max (512 circuits)
Connections	2 RJ45 connectors (In and Out)
Termination resistors	Fully automatic

Environment

Operating temperature	-10°C to +70°C
Protection class	IP20

Mechanical engineering

Mechanical mass	Connected to 0V
Weight	564g
Overall dimensions	144mm x 180mm x 74*mm (*) ≈ 100mm with cables
Mounting center distance	166mm x 130mm
Fastening screws	4 x 3.5/4mm

Interfaces

