600 series

4921240694A

Hardware racks

Data sheet

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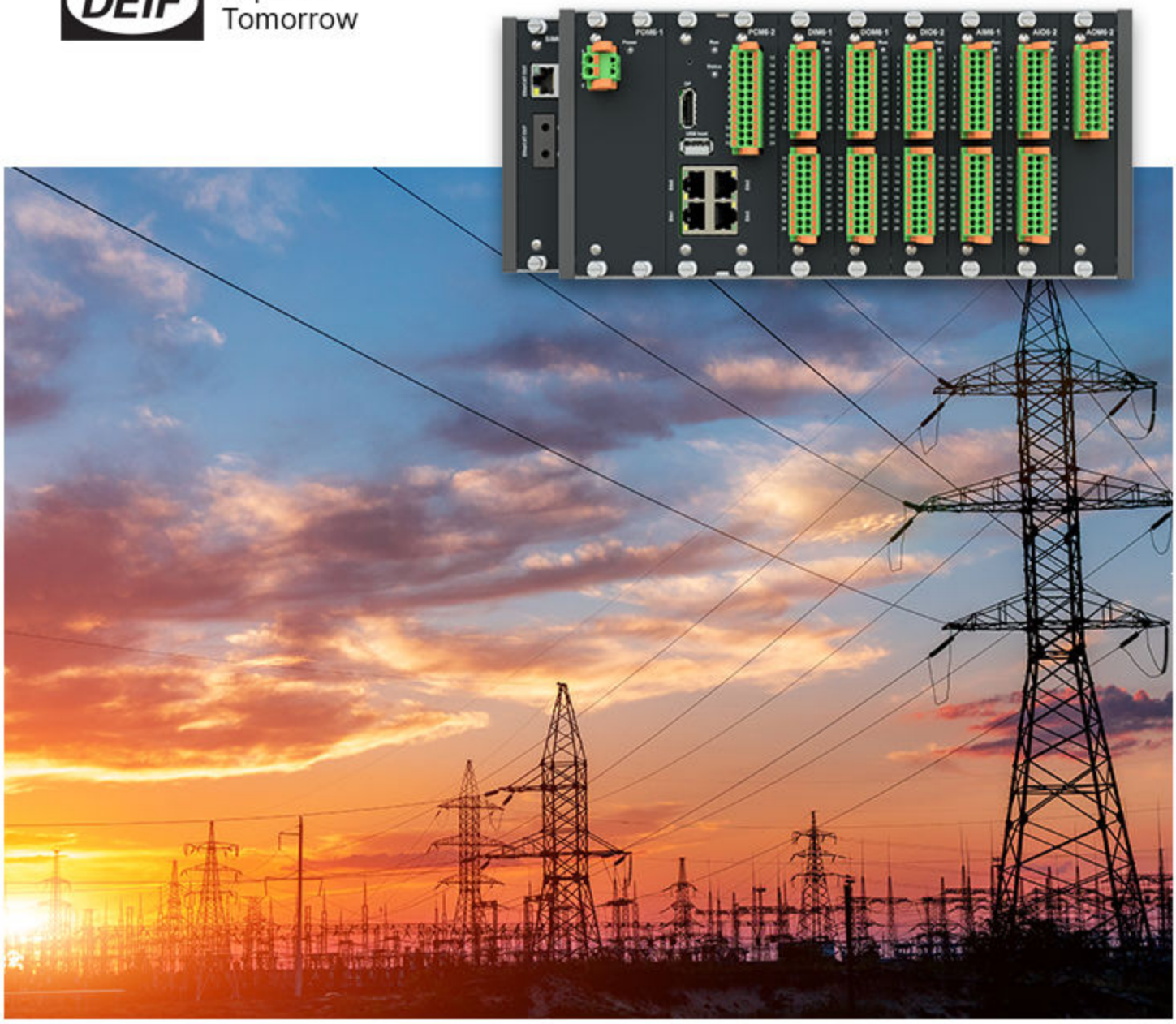


1. About the 600 series

1.1 About the racks and modules

The 600 series is a PLC-based programmable automation controller (PAC) suitable for land, marine, and wind power control applications. It is class approved, designed to marine specifications and can withstand very harsh operating conditions.

The controller is a highly flexible, modular PLC and I/O system that is designed for usage across a wide range of industrial applications. It is reliable, robust and flexible.

EtherCAT is used as native communication protocol both as the backplane communication and as interconnection between multiple 600 series racks via electrical or fibre optical connections. Other DEIF EtherCAT I/O modules or third party EtherCAT I/O modules can also be connected.

The hardware modules feature:

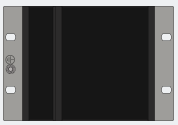
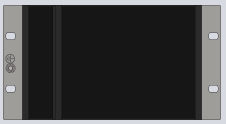
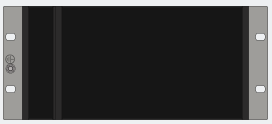
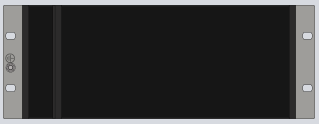
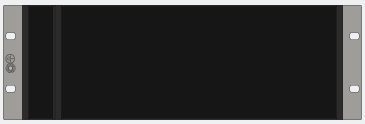
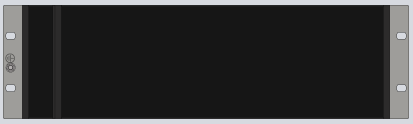
- Placement flexibility in the rack.
- Remove, replace, or add on-site.
- Automatically recognised.
- Configurable input and output functions (digital and analogue):
  - Digital input functions: Commands from operators or 3rd party equipment, changing configuration, operating information.
  - Digital output functions: Alarm status, commands to 3rd party equipment, operating information.
  - Analogue input functions: External set points, operating information, supervised binary inputs.
  - Analogue output functions: Operating information.

NOTE All slots must be covered during operation and blind modules can be used to cover unused slots.

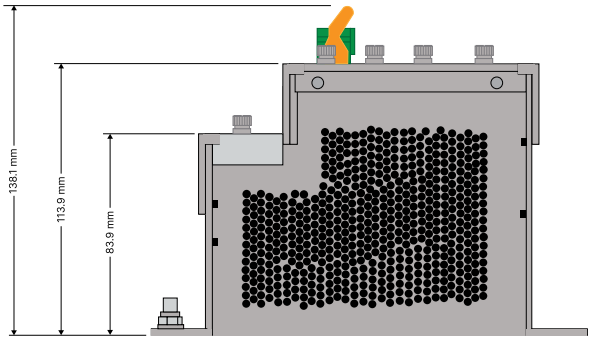
2. Technical specifications

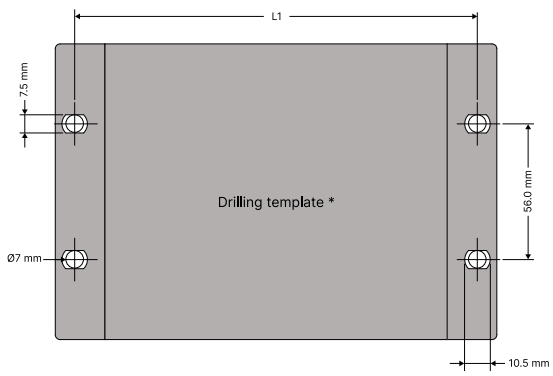
2.1 Rack sizes

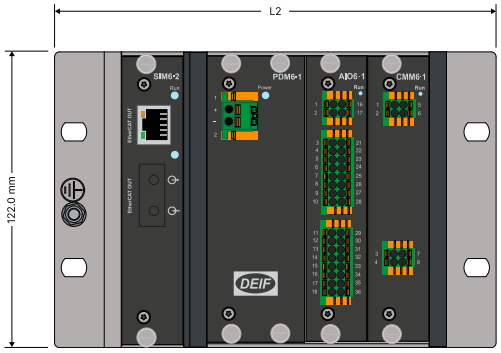
The controller rack is available in six different sizes:

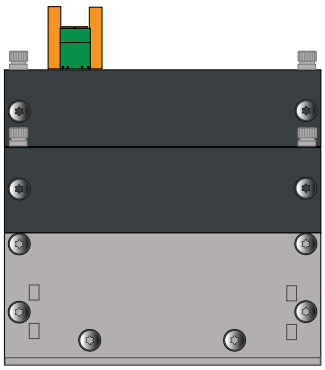
Rack	Slots	Ground plate dimensions HxDxW (mm)	Weight (g)	Rack
Rack6·4	4	122.0 x 113.9 x 182.4	715	
Rack6·6	6	122.0 x 113.9 x 233.2	870	
Rack6·8	8	122.0 x 113.9 x 284.4	1020	
Rack6·10	10	122.0 x 113.9 x 334.8	1175	
Rack6·12	12	122.0 x 113.9 x 385.6	1335	
Rack6·14	14	122.0 x 113.9 x 436.4	1500	

2.2 Rack dimensions









NOTE * The drilling template is only a guideline. Use the dimensions given to create your drilling template.

Dimensions for mounting the cabinet:

Rack	Mounting holes (mm)	L1 (mm)	Grounding plate dimensions HxDxW (mm)	L2 (mm)	Weight (g)
Rack6·4	56.0 × 166.4	166.4	122.0 x 113.9 x 182.4	182.4	715
Rack6·6	56.0 × 217.2	217.2	122.0 x 113.9 x 233.2	233.2	870
Rack6·8	56.0 × 268.4	268.4	122.0 x 113.9 x 284.4	284.4	1020
Rack6·10	56.0 × 318.8	318.8	122.0 x 113.9 x 334.8	334.8	1175
Rack6·12	56.0 × 369.6	369.6	122.0 x 113.9 x 385.6	385.6	1335
Rack6·14	56.0 × 420.4	420.4	122.0 x 113.9 x 436.4	436.4	1500
Blind plate	-		118.0 × 25.2		25

Category	Specification
Mounting	Base mount, using four stainless steel M6 screw bolts with matching plain washer of A2-70 ISO 3506 quality or better. The bolts and self-locking washers (or self-locking screws) are not included with the rack. UL/ULC : For use on a flat surface of a type 1 enclosure

Category	Specification
	UL/ULC : To be installed in accordance with the NEC (United States) or the CEC (Canada).
Tightening	Mounting bolts : 5 Nm (45 lb-in) or equivalent.

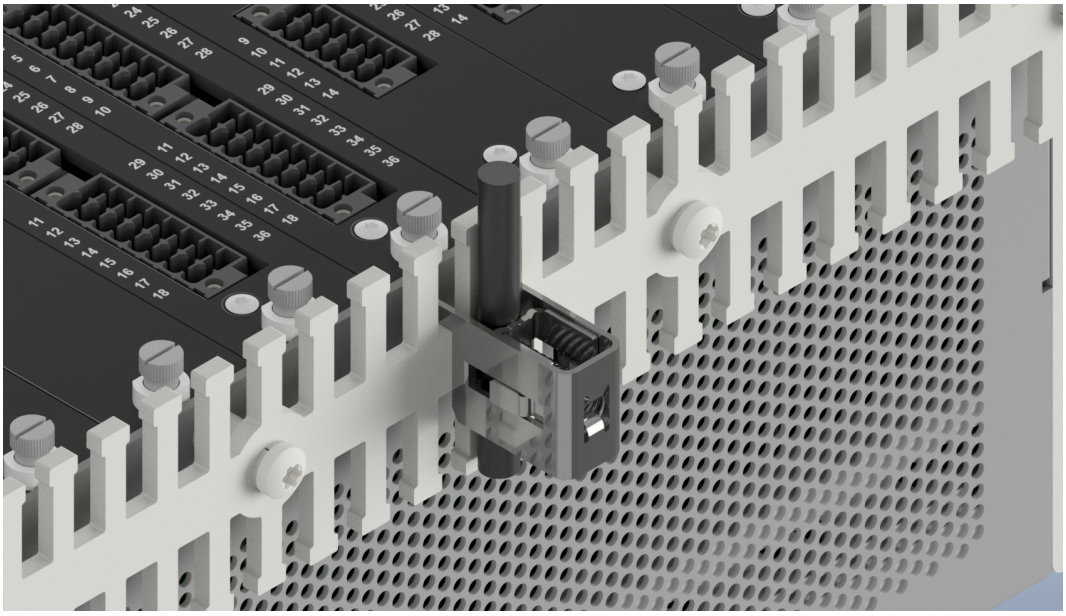
2.3 Wire support

The controller rack can be ordered with wire support brackets that are pre-mounted from the factory. The wire support is a 3 x 10 mm metal bar with hooks to secure and support wires, and is mounted at the top and bottom of the rack.

Shield clamps, typically used for communication cables (3 to 10 mm in diameter), can be mounted on the wire support bar. The clamps provide an EMC shield that is close to the input terminals.

Rack	Accessory
Rack6·10	Wiresupport, Rack6·10
Rack6·12	Wiresupport, Rack6·12
Rack6·14	Wiresupport, Rack6·14
Rack6·4	Wiresupport, Rack6·4
Rack6·6	Wiresupport, Rack6·6
Rack6·8	Wiresupport, Rack6·8

Wire support bracket mounted on a controller rack



2.4 Blind module

Blank / blind

Specifications	
Size	25.40 mm
Weight	25 g

3. Legal information

3.1 Disclaimer and copyright

Third party equipment

DEIF takes no responsibility for the installation or operation of any third party equipment, for example, a **genset**. Contact the **manufacturer** or third party equipment company if you have any doubt about how to install or operate the third party equipment.

Open source software

This product contains open source software licensed under, for example, the GNU General Public License (GNU GPL) and GNU Lesser General Public License (GNU LGPL). The source code for this software can be obtained by contacting DEIF at support@deif.com. DEIF reserves the right to charge for the cost of the service.

General warranty

The warranty period for the purchased product is defined in the contract and order acknowledgement. In general, DEIF's Terms and Conditions of Sale and Delivery apply.

The product continuously monitors the operating temperature and stores this information in a log file on the device. DEIF uses this information for service purpose and to validate if issues with the product are covered by the warranty.

The software packages supplied are believed to be of the highest quality. Due to the nature of the software development process, it is possible that there are hidden defects in the software which may affect its use, or the operation of any software or device developed with this software package.

DEIF does not undertake responsibility for determining whether this package is suitable for the application, nor for ensuring the correct operation of the application software and hardware.

The warranty does not cover product wear parts, such as:

- Internal flash disc
- If applicable, SD card (purchased separately)
- Replaceable coil-cell battery, used for the real-time clock (available as a spare part)

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