ENcombi



ECsync 200kW

Installation & maintenance instruction

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Document change log

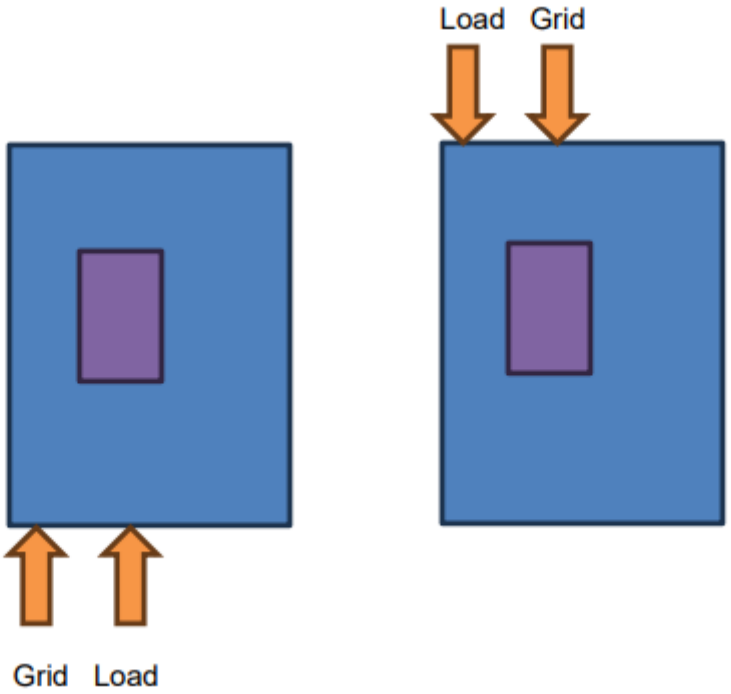
2023-10-29	First version

Installation & Maintenance

This document holds the installation and maintenance instruction of the ECsync 200kW.

Planning

It is important to plan main cable entries prior to installation. The Grid Connection is at the top of the breaker, the load / microgrid connection is at the bottom. Connections are made with lugs and M12 bolts. There is a connection for two cables on each connection, on the front and back of the bar. If both cables are from the bottom, the grid cable is entering to the left and the load cable is entered to the right. If both cables are entering from top, the grid cable is entered to the right and the load cable is entered to the left.



2 pcs FL-21 standard grommets with entries of 3 cables each is provided. Control cables can be entered through the three pre-mounted grommets on the right-side bottom.



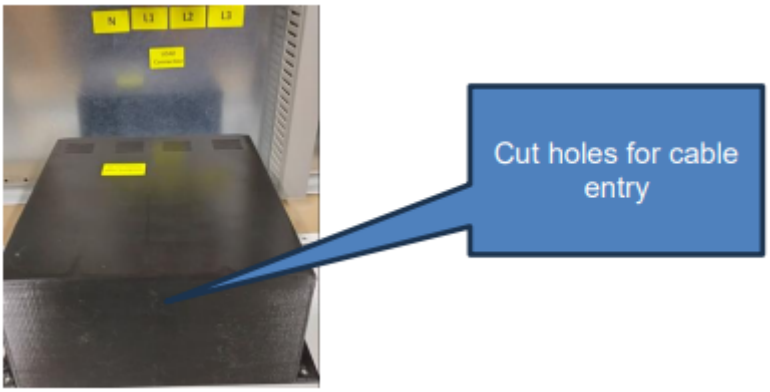


When hanging the panel on the wall, use the provided mounting fittings.



Keep 200-300 mm space free on each side of the panel for air circulation.

When connecting main cables, the covers need to be removed. The bottom cover needs to be modified for cable entry.



Adjustment of the breaker protection

A Micrologic 2.3 protection module is installed in the breaker. It has been adjusted to 320 A for overload, and this setting should not be exceeded. For other adjustment on the breaker please download and read the following document: https://download.schneider-electric.com/files?p_enDocType=User+guide&p_File_Name=DOCA0140EN03.pdf&p_Doc_Ref=DOCA0140EN

Breaker screws and bolts

Check if all screws and bolts are still tight. They have been fastened with a torque wrench prior to shipping, but vibrations may loosen them. M10 bolts on the breaker are 50 Nm and M8 bolts on busbar holders are 20 Nm. The M10 bolts holding the PE-bar is 35 Nm.

Thermography

After commission and during the first high load situation, it is strongly recommended to perform a thermography of the panel.



Maintenance

Keep the panel nice and clean, remember to close it!

The thermostat for the cooling fan should be set to 40C.
Clean the air circulation filter regularly!

If disconnecting current measurements from the controller, it is important to short the -X1 terminals. Otherwise extremely high voltage can be generated at the connector. There have been delivered 2 shorting bars with the panel for this purpose.

