

4.3 Control cabinet installation

⚠ WARNING

Risk of deflagration

A missing or insufficient ventilation of the control cabinet in which the battery pack is mounted can lead to deflagration in the control cabinet.

- Ensure sufficient ventilation of the control cabinet according to EN 50272-2 (see below).

NOTICE

Extreme environmental conditions

Extreme environmental conditions can cause damage to the battery pack.

- Avoid extreme environmental conditions.
- Protect the battery pack from moisture and heat.

Ventilation control cabinet

In the event of a fault or heavy load, hydrogen may leak from the batteries inside the battery pack. Oxygen is present in the control cabinet. If the hydrogen cannot escape from the control cabinet and the hydrogen concentration in the control cabinet exceeds a value of 4 %_{vol}, an explosive mixture is formed and deflagration may occur in the control cabinet. To keep the hydrogen concentration in the air low and thus reduce the risk of deflagration, you must ensure appropriate ventilation of the control cabinet in accordance with EN 50272-2. You can achieve this through natural ventilation. Equip the control cabinet with openings for air circulation. Position the openings either on opposite walls or in the same wall at least 2 m apart.

Control cabinet installation

The battery pack C9900-U332 is designed for installation in control cabinets of machine and plant technology. The environmental conditions specified for operation must be observed (see chapter 7 [Technical data](#) [p. 22]).

If you need the dimensions of the battery pack for mounting, you can get them in chapter 4.2 [Dimensions](#) [p. 12].

Three different mounting options are available for the C9900-U332 battery pack:

- Vertical via the rear on the DIN rail
- Horizontally via the rear on the DIN rail
- Via the mounting plate on the rear side without DIN rail

As delivered, the battery pack is designed for vertical mounting on the DIN rail. To mount the battery pack horizontally, you must first convert the mounting latches on the back of the battery pack.

Follow the steps below to convert the mounting notches, as shown in figures 7 and 8:

1. Loosen the screw of the ground connection plate with a 3.0 mm Allen key (section A).
2. Remove the ground connection plate (section B).
3. Remove the screws of the two mounting notches using a 2.5 mm Allen key (section C).
4. Remove the two mounting notches (section D).