

Important Information for electric powered transport trolleys (JLA-e)

General Information:

- Please read the user manual before operating the device!
- Please pay attention to the individual warning labels on the equipment!
- Please adhere to the specified maintenance intervals!

Proper charging of the batteries:

- Please ensure that all batteries are turned on during the charging process. If the batteries are turned off, they will not charge. (Note: If the charger is connected to the 30 Ah battery (Item No. 93 054 000-E) while it is turned off, this may cause damage to the battery, requiring repair. This issue does not occur with the 50 Ah and 60 Ah batteries.
- To charge the JLA-e batteries, the [VDS 2259](#) (Guidelines for Damage Prevention - Battery Charging Systems for Electric Vehicles) should be followed. If these guidelines are implemented, overnight charging can be done without any concerns.
- A multi-day charging of the battery is not possible because the charging process does not automatically restart once the battery is fully charged. While charging, the battery remains on and active, resulting in continuous power consumption. This can cause the battery to discharge even while connected to the charger.

Optimal conditions for charging the batteries:

- The optimal operating temperature for the battery pack is between 10° C and 30° C. Frequently exposing the battery pack to extreme temperatures may negatively affect its performance and lifespan.
- Temperature Ranges:
Operating temperature of the battery: 0° C to 50° C
Optimal operating temperature of the battery: 10° C to 30° C
Optimal room temperature for storing the battery: 5° C to 20° C
- The trolley must be disconnected from the battery during charging.

Proper storage of batteries:

- Before storing the battery, make sure to fully charge it.
- When storing the battery, the BMS (Battery Management System) must be turned off to prevent the battery from becoming deeply discharged. It must also be ensured that no charger or electrical trolley is connected.
- Please charge the battery at least every 4 weeks. Regular intermediate charging is necessary; otherwise, deep discharge could occur, leading to the destruction of individual cells. During storage, the lithium cells are subjected to discharge by the built-in balancers (part of the BMS), which causes the battery to drain.
- The optimal storage temperature is between 5° C and 20° C. Low temperatures below 0° C should be avoided.
- The battery should generally be charged at room temperature (around 10° - 25° C). Avoid charging a cold battery, as it can damage the cells. The charging temperature of the battery should not fall below 0° C.

To determine the actual temperature of the battery, the following app can be used for the **60 Ah battery**:

Emus EVGUI (only for 60Ah battery)



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Switching the radio channel:

For frequent connection drops, it is recommended to change the wireless channel. You can find a detailed guide [here](#).