3. List of supplied components

Available components for REACT2-BATT

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery unit</td>
<td>1</td>
</tr>
<tr>
<td>Cable lug for earth cable</td>
<td>1</td>
</tr>
<tr>
<td>REACT2-BATT power connection cable</td>
<td>1</td>
</tr>
</tbody>
</table>

Available components for REACT2-BATT

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACT2-BATT signal connection cable</td>
<td>1</td>
</tr>
<tr>
<td>Welding kits. Welding washer and insulating box washer for protective parts cable resistance (x4)</td>
<td>1</td>
</tr>
<tr>
<td>Technical documentation</td>
<td>1</td>
</tr>
</tbody>
</table>

4. Safety precautions

Battery systems provide a safe source of electrical energy when operated as intended and as designed. Intentional hazardous circumstances such as excessive heat or electrolyte mist may occur under improper operating conditions, damage, misuse and/or abuse. The following safety precautions and the warning messages described in this manual must be observed.

HIGH VOLTAGE – ELECTRIC SHOCK HAZARD: DO NOT open any cover of REACT2-BATT

Organic Solvent Electrolyte

Cell components of Battery System contain organic solvent-based electrolyte. Release of individual cells may allow some electrolyte to be released from the cell. Client contact with the liquid electrolyte can cause irritation.

Reactions below can cause severe injuries to personnel.

• Flush immediately with cold running water for at least 15 minutes.
• Remove clothing if soiled.
• Dispose immediately with water for at least 15 minutes.
• Remove clothing. If exposed, seek medical attention.
• Serve immediately medical attention.

Electrolyte Vent-Product

Never leave the REACT2-BATT in areas with high fire risk or in high-temperature areas.

Never leave the REACT2-BATT in places where these may be accidentally hit and damaged.

Equip the storage environment with appropriate PPE.

Store the Battery Unit in its original packing (including the pallet), in a dry, cool, well-ventilated environment and away from water.

To minimize capacity degradation, storing in a dry place with temperature less than 25°C.

Storage humidity shall be less than 80% RH non-condensing.

DO not stack more than 4 boxes.

Besides complying with the general application of the ADR, Battery Units which are transported for disposal must comply with the following guidelines:

• The transport of Battery Units must comply with the general application of the ADR. For any new Battery Units, see paragraphs 1.11 and 1.12 of the ADR document.
• A Package is to be used for the transport of the batteries, which is for transportation for disposal (as defined in the ADR).
• A Package is to be used for transportation for disposal (as defined in the ADR). Batteries which are transported for disposal must comply with the following guidelines:

• Do not expose the unit to direct solar irradiation.

• Do not leave the REACT2-BATT in areas with high fire risk or in high-temperature areas.

• Do not store in or expose to extreme conditions or storage or handling practices that could cause serious harm to people or damage to the product or property.

The number of required operators necessary to lift the equipment must be in accordance to local regulations and lifting instructions per operator.


do not stack more than 4 boxes.

Unpacking and checking

Be sure to inspect the packaging system’s condition and all parts. Check for scratches, dents, cracks, and other damage. If any of these are found, contact the ABB Technical Assistance Department.

If any defects or damage is detected, please stop, contact the carrier and also promptly inform the ABB Service.
1. Choice of installation location

Environmental checks:
- See characteristics and technical data paragraphs to check the required environmental conditions (protection rating, temperature, humidity, altitude, etc.).
- The installation location shall be easily accessible.
- Prevent access to the installation location by children.

Installation of the unit in a location exposed to solar rays makes the warranty void as it may cause power limitation phenomena in the battery unit.

2. From among the components supplied, find the M5 nut, M5 flat washer and M5 serrated lock washer.

3. Connect the two battery cables between inverter and battery unit (supplied in the REACT2-BATT box).
   - To remove the battery power connectors
   - To remove the battery signal connectors

4. Lift the REACT2-BATT up to the bracket and insert the heads of two screw-on clips on the back of the battery unit into the slots on the brackets.

5. Install the REACT2-BATT bracket on the support.

High ambient temperature (above 30 °C) or high relative humidity (above 80%)

1. Lift the REACT2-BATT up to the bracket and insert the heads of two screw-on clips on the back of the battery unit into the slots on the brackets.

2. Install on a wall or strong structure suitable to bear the weight and in a position which is suitable for servicing, unless suitable means are provided to carry out the operation.

3. Avoid electromagnetic interference that can compromise the correct operation and restrict or block the air flow.

4. The installation must take account of any electrical devices (e.g. lamps, switches, etc.) which may be installed in the vicinity.

5. Make sure that the flow of air around the battery unit is not blocked so as to prevent overheating.

6. Choice of installation location

- Do not install on wooden walls or near flammable substances.
- Do not install in locations where flammable substances or gases may be present.
- Do not install in locations where a constant presence of water and/or high humidity level.
- Do not install in rooms where people live or where the prolonged presence of people or animals is expected, because of the noise that the system produces during operation.
- The level of sound emissions is heavily influenced by whether the appliance is installed, for example the type of surface around the inverter, the general properties of the room, etc.
- Consider the quality of the electrical supply and the dimensions of the installation location.
- Respect the minimum distances from objects around the installation unit that could prevent the inverter installation and electric or block the air flow.

7. Assembly Instruction

- Install the REACT2-BATT bracket on the support.
- Depending on the type of anchor chosen, drill the required 2 holes and use it as a drilling template. To align the two brackets use the reference points provided in the picture.
- Install vertically with a maximum inclination of 5° (forward or backward).
- Avoid electromagnetic interference that can compromise the correct operation of electronic equipment, with the consequent hazards.
- Install a wall or strong structure suitable to bear the weight.
- Install at a height which takes into consideration the weight of the appliance and a position which is suitable for servicing, unless suitable means are provided to carry out the operation.

8. Mounting Instruction - multi battery systems (continuation)

- To ensure all external grounding connections, follow the procedure detailed below:
  1. Have a joist with eath cables using the two cables supplied (minimum cross section in mm²)
  2. From among the components supplied, find the M5 nut, M5 flat washer and M5 serrated lock washer.
  3. Install the battery cables following the below installation sequence

9. Characteristics and technical data

<table>
<thead>
<tr>
<th>Battery unit</th>
<th>REACT2-BATT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V)</td>
<td>240/480</td>
</tr>
<tr>
<td>Amperage (A)</td>
<td>48</td>
</tr>
<tr>
<td>Voltage range</td>
<td>190 - 260 V</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>110 x 260</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>30</td>
</tr>
<tr>
<td>Installation instructions</td>
<td></td>
</tr>
<tr>
<td>Mounting system</td>
<td>Wall or strong structure</td>
</tr>
<tr>
<td>Mounting height</td>
<td>Suitable to bear weight and in a position which is suitable for servicing, unless suitable means are provided to carry out the operation</td>
</tr>
<tr>
<td>Location</td>
<td>Environmentally protected location</td>
</tr>
<tr>
<td>Speed of change</td>
<td>0.1 V/min</td>
</tr>
<tr>
<td>Voltage protection</td>
<td>Over voltage: 260 V, Under voltage: 190 V</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20...+55 °C</td>
</tr>
<tr>
<td>Humidity range</td>
<td>5...+95%</td>
</tr>
</tbody>
</table>

Risk of injury due to the heavy weight of the equipment.

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- Do not install on wooden walls or near flammable substances.
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