About these instructions

The Abbreviated Installation Instructions provide the installer with information on mounting, connecting and commissioning the device.

The Abbreviated Operating Instructions contain basic device operating information for the operator. Detailed information is provided in the comprehensive Installation and Operating Instructions, available via the Internet.

Other sources of information are specified via Internet addresses and QR codes. Scan the QR codes using a smartphone and suitable QR code app.

http://www.steca.com/Wechselrichter-Wohnsiedlung

Intended use
- The coolcept family of products consists of inverters of different power classes, intended for indoor or outdoor installation and for single-phase or three-phase feeding.
- These inverters may only be used in grid-connected photovoltaic systems.
- The inverter is suitable for use with all solar modules whose connections are not grounded.
- All connected solar modules must be classified as Class A according to IEC 61730, because these inverters do not have galvanic isolation.
- The maximum permissible system voltage of the photovoltaic generator must be higher than the AC grid voltage.
- Connections for an optional energy storage system are provided on some models. The connector to the grid cable as well as the DC circuit breaker must not be connected directly to a battery.

Keep children away from photovoltaic systems.

Incorrect operation or settings, especially during the initial commissioning process, may lead to a failure of the inverter.

c. If present, plug in the TCP/IP (1) and Modbus RTU (7) data connections.

Safety

- This document must be read and understood in full before installing and/or using the device.
- Connection, commissioning and repair may only be performed by a qualified electrician who is specially trained in solar technology.
- Incorrect settings may only be used in grid-connected photovoltaic systems.
- The inverter is suitable for use with all solar modules whose connections are not grounded.
- All connected solar modules must be classified as Class A according to IEC 61730, because these inverters do not have galvanic isolation.
- The maximum permissible system voltage of the photovoltaic generator must be higher than the AC grid voltage.
- Connections for an optional energy storage system are provided on some models. The connector to the grid cable as well as the DC circuit breaker must not be connected directly to a battery.

Installation

- Make sure that all inflammable gases are present.
- Ensure conformance to the permissible ambient conditions.
- Do not install the inverter in areas where animals are kept.
- Do not cover the device.
- Keep children away from photovoltaic systems.
- Follow the general and national safety and accident prevention regulations.
- This document must be stored safely and be available for the entire service life of the device and must be passed on to any subsequent user.
- Connection, commissioning and repair may only be performed by a qualified electrician who is specially trained in solar technology.

Abbreviated Installation Instructions

coolcept
coolcept-x
StecaGrid 1500 (-x)
StecaGrid 1800 (-x)
StecaGrid 2000 (-x)
StecaGrid 2300 (-x)
StecaGrid 2500 (-x)
StecaGrid 3000 (-x)
StecaGrid 3010 (-x)
StecaGrid 3600 (-x)
StecaGrid 4200 (-x)
StecaGrid 3203 (-x)
StecaGrid 4003 (-x)
StecaGrid 4803 (-x)
StecaGrid 5003
StecaGrid 5503 (-x)
StecaGrid 6003

Scope of delivery

1. Type plate with the main technical data and serial number
2. Safety label with warning notices

http://www.steca.com/Wechselrichter-Wohnsiedlung

Additional configuration may need to be entered, depending on the selected country.

Detailed information on installation of the AC cables and the line circuit breaker is provided in the downloadable version of the Operating Instructions.

http://www.steca.com/Wechselrichter-Wohnsiedlung

For detailed information on the country settings, see:
http://www.steca.com/Wechselrichter-Wohnsiedlung

m. Select Finish and press SET.

n. If the settings are incomplete then a dialogue stating Settings are incomplete is displayed. Press SET and complete the missing basic settings.

o. When all settings have been made, a dialogue stating are all settings correct? Is displayed. To correct any settings: press ESC. To finish initial commissioning: press SET for a longer period of time (> 1 s). If SET was pressed for a longer time then the inverter starts anew and synchronises itself with the grid.

p. Switch on the DC circuit breaker (6) on the underside of the inverter. The inverter is ready for operation.

In the case of questions or if more installation information is required, please refer to the full Operating Instructions, which are available for download.

http://www.steca.com/Wechselrichter-Wohnsiedlung

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3 Abbreviated Installation Instructions

2 Abbreviated Installation Instructions
Abbreviated Operating Instructions

**Structure**

### coolcept/coolcept³
1. Hood
2. Display (monochrome, 128 x 64 pixels)
3. Type plate, serial number, warning notices
4. Operating buttons: ESC, △, ▼, SET (from left to right)
5. RJ45 sockets (2 x RS485 bus)
6. AC connection
7. DC connection, Minus (−) for solar module
8. DC connection, Plus (+) for solar module
9. DC connection, Plus (+) for optional energy storage system
10. DC circuit breaker (interrupts the plus and minus inputs simultaneously)
11. RJ10 socket (Modbus RTU)
12. RJ45 socket (LAN)
13. DC connection, Minus (−) for optional energy storage system

### coolcept-x/coolcept³-x
1. Hood
2. Display (monochrome, 128 x 64 pixels)
3. Type plate, serial number, warning notices
4. Operating buttons: ESC, △, ▼, SET
5. AC connection
6. Pressure equalisation membrane
7. RJ45 socket (RS485 bus)
8. DC connection, Minus (−) for solar module
9. RJ45 socket (RS485 bus)
10. DC connection, Plus (+) for solar module
11. RJ45 socket (LAN)
12. DC circuit breaker (interrupts the plus and minus inputs simultaneously, can be secured with a padlock)
13. Hole for optional ground or mechanical fastening (safety chain)

**Display**

### Example status display of the output power:

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Press briefly</td>
</tr>
<tr>
<td>△</td>
<td>Press briefly</td>
</tr>
<tr>
<td>▼</td>
<td>Press briefly</td>
</tr>
<tr>
<td>SET</td>
<td>Press briefly</td>
</tr>
</tbody>
</table>

### Example: Numerical and graphical display of the monthly yields

The status display is shown.

1. Press SET: The main menu is displayed with \( \text{Yield} \) selected.
2. Press △: A list of yield periods (Day, Month, Year) is displayed.
3. Press ▼: To select a yield period.
4. Press SET: The individual yields for the yield period are shown in a list (Fig. left).
5. Press ▼: To select an individual yield.
6. Press ESC: The selected individual yield is shown in a chart (Fig. left).
7. Press △: To page through the charts.
8. Press SET to return to the list.
9. Yields can also be displayed as monetary values (remuneration) (see menu structure).

The following data is stored in the inverter:
- Event messages with date
- Energy yields on a daily, monthly and annual basis

### Energy yield data

<table>
<thead>
<tr>
<th>Storage resolution/period</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-minute values</td>
</tr>
<tr>
<td>Daily values</td>
</tr>
<tr>
<td>Monthly values</td>
</tr>
<tr>
<td>Annual values</td>
</tr>
<tr>
<td>Total yield</td>
</tr>
</tbody>
</table>

### Data communication

For data analysis purposes, the inverter can provide a wide range of data via the RS485 and LAN data interfaces (e.g. data logger). Multiple inverters can be interconnected via the RS485 bus.

For detailed information on data communication, see:
http://www.steca.com/Wechselrichter-Wohnsiedlung

### System monitoring

Registration of the operator and the system in the StecaGrid portal at:
http://www.steca.com/portal

### Care/Maintenance

- Remove dust with compressed air (max. 2 bar).
- Remove soiling with a slightly damp cloth (clear water or a 2% hard soap solution).

For detailed information on the menu structure and event messages, see:
http://www.steca.com/Wechselrichter-Wohnsiedlung

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For detailed information on the menu structure and event messages, see:
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Errors are indicated by a red flashing background. An event message is also displayed at the same time.