

# Policy directive

## for GeneCIS Solar Modules

Dear customer,

We are pleased you have decided for GeneCIS® Solar modules from Würth Solar. You have purchased a product manufactured with state-of-the-art technology.

Würth Solar requires that installation is only performed by technically qualified and certified personnel. Please keep children and non-qualified persons away.

The rules of generally accepted engineering practice, national directives, standards and regulations apply. Please also observe the accident prevention regulations. This may mean that safety systems, such as securing belts, scaffolding or other equipment, may be necessary.



Read the instructions thoroughly and ensure that you have understood everything before commencing installation.

Proper and safe operation requires that the GeneCIS® Solar modules are transported correctly, as well as competently stored, positioned and installed.

When operating a photovoltaic system or individual modules, any parts exposed to light may be at dangerous voltages even if the modules are not yet connected. Cover the GeneCIS® solar modules with an opaque material, as required.

### Functional description of the modules

GeneCIS® solar modules from Würth Solar generate DC voltage as soon as they are exposed to light. A voltage then exists at the electrical contacts. GeneCIS® solar module are designed for outdoor use and may be installed on suitable support frames according to the model.

### Use of the modules

A GeneCIS® solar module is a glass-glass laminate with or without an aluminum frame.

GeneCIS® solar modules are intended to generate electricity for PV systems. Any other or extended usage is not intended. Improper use may pose a danger to life and limb of the user and/or third parties and lead to failure or impairment of the system / PV module. The user, and not the manufacturer, bears sole liability for the resulting damage.

### Safety notices

- Do not drop the module
- Only carry the module with cut proof safety gloves
- Do not bend or twist the module
- Only carry the module with both hands
- Do not lift the module at the connection socket or connection leads

- Keep the connectors and receptacles clean and dry
- Damaged modules must not be used
- Use voltage protected tools
- The tools used must be dry
- Do not step on, walk on or place objects on the modules
- Maximum module load 2400 Pa
- The module must not be machined with sharp objects
- Do not disassemble the module or remove any identification plates attached or other components
- Do not apply paints, adhesives, silicone or other sealants to the module
- Make sure the connectors are fastened
- Do not concentrate sunlight on the module with a mirror or lens
- Observe the mounting instructions for our STARfix fixation system
- Observe our installation instructions for the electrical installation
- Only work under dry conditions
- The module must not be used in water
- By exposition through salt and sulfur may be lead to corrosion
- The modules must not be installed in a biologically or chemically aggressive environment
- Modules must not be operated or installed near naked flames
- Modules must not be operated near rooms from which inflammable gases may escape or collect
- Make sure that no inadmissibly high forces can arise through thermal expansion
- Do not fit any electrically conducting parts in the connectors or receptacles
- The PV generator must not be separated from the inverter as long as it is connected to the grid
- Observe the waiting times specified by the manufacturer after switching off the inverter before you commence further work
- A GeneCIS solar module with a broken glass does not work properly. Do not use it. Risk of injury through bits of broken glass.



### Installation and electrical connections

- The modules may only be installed by qualified electricians
- Arrange the modules so that the cells are positioned in the lengthwise direction. Modules arranged in the crosswise direction can result in a reduction in yield.
- The modules should be optimally aligned (south / 30° - 35° slope)
- For a good self-cleaning effect by precipitation, the angle of inclination should be at least 20°

### Installation

- The modules must be mounted with proper installation system. The most suitable is the STARfix I-IV installation system of Würth Solar.
- The modules must be secured so that they present no danger of injury or damage
- Make sure that no mechanical tensions in the actual structure are transferred to the module
- The module may not be installed as overhead glazing
- The maximum torque for a retaining clamp for framed GeneCIS solar modules is 20 Nm. Please use a dynamometric key. Please find further instructions in the installation instructions.
- The substructure and the PV system must be designed to sufficiently withstand the expected loading by snow and wind, and may not exceed the permissible loading values of the module
- Ensure sufficient back ventilation of the modules and the substructure
- When installing the modules, the connection box (on the back) must be located at the top so that the connection lines exit the box downward. Make sure during installation that no water can flow in the direction of the boxes, especially along the line.
- The modules and the installation system must be connected to the equipotential bonding. Observe the corresponding regulations and standards when doing so
- Overvoltage and lightning protection systems must be connected if necessary
- For buildings with lightning protection systems, the system must be integrated in the lightning protection concept by a specialist company
- The solar generator may only be mounted on a fireproof roofing material approved for this purpose

### Technical data

The technical data for the modules may be found in the relevant datasheets.

### Ongoing inspection and care

- Connection leads and plug connectors must be regularly inspected for corrosion and mechanical damage
- The modules should be regularly checked for soiling
- The state of the installation system should be regularly checked

- Regularly inspect the earthing resistance of the overall system in accordance with local regulations
- Soiled modules can be cleaned with a soft sponge or cloth and plenty of clean water (rain water or tap water). Distilled water and cleaning agents of any kind may not be used.

### Disposal

Packaging must be disposed of in accordance with legal and technical requirements. The environmental requirements concerning recycling and disposal of consumables and components must be observed.