EXPLANATION OF SYMBOLS

Symbols on the Inverter

Operation display.

An error has occurred. Inform your installer immediately.

Bluetooth® Wireless Technology. Bluetooth communication active.*

Symbols on the Type Label

Beware of dangerous electrical voltage.
The inverter operates at high voltages. Any electrical work on the inverter must be carried out by electrically qualified persons only.

Beware of hot surface.
The inverter can become hot during operation. Avoid contact during operation.

Observe enclosed documentation.

The inverter must not be disposed of together with the household waste.
Further disposal information can be found in the enclosed installation manual.

CE mark. The inverter complies with the requirements of the applicable EC guidelines.

RAL quality mark for solar products. The inverter complies with the requirements of the German Institute for Quality Assurance and Labeling.

Device class label. The inverter is equipped with a wireless component that complies with the harmonized standards.

Certified safety. The inverter complies with the requirements of the European Equipment and Product Safety Act.

Australian mark of conformity.

Korean mark of conformity.

Direct current (DC).

Alternating current (AC).

The inverter is protected against dust intrusion and water jets from any angle.

The inverter has a transformer.

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GLOSSARY

AC
Abbreviation for "alternating current".

Bluetooth
Bluetooth is a radio technology that allows the inverter and other communication devices to communicate with each other. Bluetooth communication does not require visual contact between the devices.

DC
Abbreviation for "direct current".

Electronic Solar Switch (ESS)
The Electronic Solar Switch is part of the inverter DC disconnection unit. The Electronic Solar Switch must be securely inserted into the bottom of the inverter and may only be removed by an electrically qualified person.

Energy
Energy is measured in Wh (watt hours), kWh (kilowatt hours) or MWh (megawatt hours). The energy is the power calculated over time. If, for example, your inverter operates at a constant output of 3 000 W for half an hour and then at a constant output of 2 000 W for another half hour, it has fed 2 500 Wh of energy into the power distribution grid within that hour.

Power
Power is measured in W (watts), kW (kilowatts) or MW (megawatts). Power is an instantaneous value. It displays the power your inverter is currently feeding into the power distribution grid.

PV
Abbreviation for photovoltaics.
SAFETY INSTRUCTIONS

DANGER!
Electric shock caused by high voltage in the inverter.

Do not open the inverter!
Even when no external voltage is present, there can still be high voltages in the inverter.
- Electrical installation, repair and retrofitting may only be carried out by a trained electrically qualified person.
- Physically or mentally challenged persons may only perform activities on the inverter following proper instruction and under supervision.
- Children must not play with the inverter. Children must not have access to an inverter in operation.

CAUTION!
Risk of burns through contact with the enclosure during operation.
- During operation, only touch the lid and display.

Yield loss due to poor heat dissipation.
- Do not place any objects on the enclosure.

PRODUCT OVERVIEW

Identification of the inverter by the type label

Serial number

Enclosure lid

Graphic display

LEDs

Electronic Solar Switch

DIAGRAM

The inverter energy and/or power is shown as a diagram on the display. The daily graph is displayed by default. The right-hand flashing bar of the diagram represents the current hour. If the inverter does not feed any power to the power distribution grid over a longer period of time (e.g. in darkness or if the PV modules are covered with snow), a gap is inserted into the chart. The column for the current hour is updated automatically every five seconds.

After four seconds, the bar goes off for one second and then displays the current value.

GRAPHIC DISPLAY

The display updates the values of your PV plant every 5 seconds.

You can operate the display by tapping it:
- Tapping the enclosure lid once: The background illumination is activated, switch between the power range of the past 16 feed-in hours and the energy yields of the past 16 days, switch to the next text line
- Double tapping (valid as of firmware version 2.30): the inverter shows, in succession, the firmware version, the serial number and designation of the inverter, the Bluetooth NetID, and the specified country standard and display language.

PLANT OVERVIEW

Current power

Daily energy

Total energy generated since the inverter was installed

Power and energy of the inverter are displayed in three fields: Power, Day and Total. The display is updated every five seconds.

You can operate the display by tapping it:
- Tapping the enclosure lid once: The background illumination is activated, switch between the power range of the past 16 feed-in hours and the energy yields of the past 16 days, switch to the next text line
- Double tapping (valid as of firmware version 2.30): the inverter shows, in succession, the firmware version, the serial number and designation of the inverter, the Bluetooth NetID, and the specified country standard and display language.

MEASUREMENT ACCURACY

The display values may deviate from the actual values and must not be used as a basis for invoicing. The inverter’s measured values are required for the operational control and to control the current to be fed into the power distribution grid. The inverter does not have a calibrated meter.

POWER DISPLAY

The power and energy of the inverter are displayed in three fields: Power, Day and Total. The display is updated every five seconds.

Power
The power that the inverter is currently feeding into the power distribution grid.

Day
The energy fed into the power distribution grid on this particular day. This equals the energy generated between the inverter’s start-up in the morning to the current time.

Total
The total energy that the inverter has fed into the power distribution grid during its entire operating time.

LED

- Green LED is on: Operation
- Green LED is flashing: Waiting for sufficient irradiation
- Red LED is on: Disturbance: contact installer
- Blue LED is on: Bluetooth communication is active. The inverter can communicate with other SMA Bluetooth devices with identical NetID.
- Blue LED is flashing: The inverter was identified via Sunny Explorer by setting the “find device” parameter.