If you have technical problems, contact your installer. The following information is required in order to provide you with the necessary assistance:

- Inverter device type
- Inverter serial number
- Type and number of PV modules connected
- Event number or display message on the inverter
- Optional equipment (e.g. communication devices)

SMA Solar Technology AG

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SMA Serviceline

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Installer contact

EXPLANATION OF SYMBOLS

Symbols on the Inverter



Operation display.



An error has occurred. Please inform your installer immediately.



Bluetooth®. Bluetooth Communication active.*

Symbols on the Type Label



Beware of dangerous electrical voltage.

The inverter operates at high voltages. Any work on the inverter must be carried out by qualified personnel 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 guide.



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



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



with the harmonized standards. Certified safety. The inverter complies with the requirements of the Europe Equipment

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



and Product Safety Act. In compliance with Australian mark



In compliance with Korean mark



Direct Current (DC) Alternating current (AC)



The inverter is protected against penetration by dust particles and water jets from any angle.



The inverter is transformerless.

* The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of these marks by SMA Solar Technology AG is under license.



PV Inverter

SUNNY TRIPOWER 8000TL/10000TL/12000TL/15000TL/17000TL

User Manual



STP8-17TL-BA-BEN112030 | IMEN-STP10-17TL | Version 3.0



VISUAL INSPECTION, MAINTENANCE AND CLEANING

Visual inspection

Check the inverter and cables for any visual signs of external damage. Contact your installer if you find any damage. Do not perform any repair work yourself.

Maintenance and Cleaning

Ask your installer to check for correct inverter operation at regular intervals.

GLOSSARY

Abbreviation for "alternating current".

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. Electronic Solar Switch must be securely inserted into the bottom of the inverter and must only be removed by qualified personnel.

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 grid within that hour.

Power

Power is measured in W (watts), kW (kilowatts) or MW (megawatts). Power is a momentary value. It displays the power your Sunny Tripower is currently feeding into the grid.

PV

Abbreviation for photovoltaics.

SAFETY INSTRUCTIONS

DANGER

Electric shock caused by high voltage in the inverter.

Do not open the inverter!

- Electrical installation, repairs and modification should only be carried out by a trained electrically skilled person.
- The appliance is not to be used by children or persons with reduced physical, sensor or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children should be supervised to ensure that they do not play with the appliance.



WARNING

New safety concept!

The PV generator has been short-circuited, if the Sunny Tripower beeps because of a fault in the generator. The PV plant is now in a safe state.

- Do not, under any circumstances, disconnect the Electronic Solar Switch or the DC plug connectors.
- Contact your installer immediately for repair.



CAUTION

Touching the enclosure during operation may cause burns.

· Only touch the lower lid and display during operation.

GRAPHIC DISPLAY

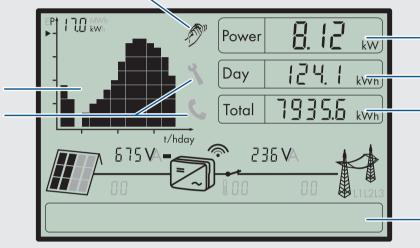
The display updates the values of your PV system every 5 seconds.

Tapping on the enclosure lid:

- Activates the background illumination
- Switches from the energy values of the past 16 feed-in hours to the daily energy values for the past 16 days
- Switches to the next text line

Graphical display of the inverter energy/power

Malfunction: Contact installer



PRODUCT OVERVIEW

Lower case cover

Graphic display

LEDs

Electronic Solar Switch

Current power

Daily energy

Identification of the inverter by the type label

Serial number

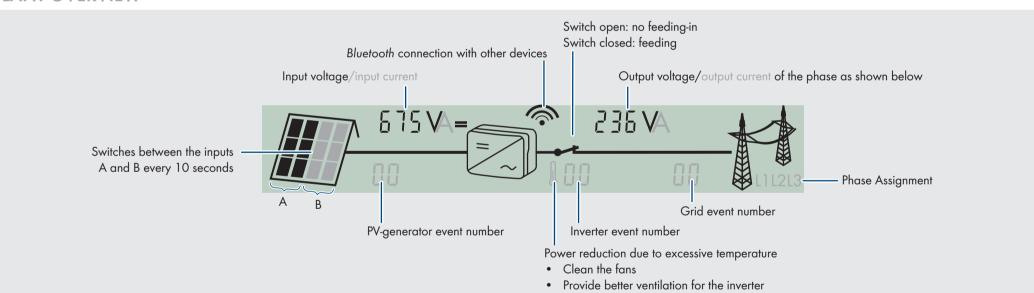
SMA

SUNNY TRIPOWER

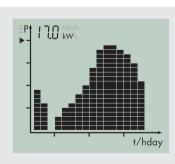
Total energy generated since inverter installation

Text line for displaying an event

PLANT OVERVIEW



DIAGRAM



The inverter energy 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 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.

OUTPUT INDICATOR

The power and energy of the inverter are displayed in three fields: Power, Day and Total. The display is updated every 5 seconds.



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

The energy fed into the grid on this particular day. This equals the energy generated between the inverter's daily start-up to the current

The total energy the inverter has fed into the grid during its entire operating time.

MEASUREMENT ACCURACY

The display values may deviate from the actual values and should not be used as a basis for invoicing. The inverter's measured values are required for the system management and to control the current to be fed to the grid. The inverter does not have a calibrated meter.

LED

	Green LED on:	Operation
	The green LED is flashing:	Waiting for sufficient irradiation.
•	Red LED on:	Disturbance: contact installer.
	Blue LED on:	The inverter has been incorporated into a <i>Bluetooth</i> network and can

parameter.

communicate with other devices with identical NetID. Blue LED is flashing: The inverter was identified via Sunny Explorer by setting the "Find device"