CONTACT

If you have technical problems, first 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 of the inverter
- Optional equipment (e.g. communication devices)

SMA Solar Technology AG

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SMA Serviceline

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Communication:	+49 561 9522 2499
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PV Inverter SUNNY TRIPOWER 8000TL / 10000TL / 12000TL / 15000TL / 17000TL **User Manual**



STP8-17TL-BEN105020 | IMEN-STP10-17TL | Version 2.0



EXPLANATION OF SYMBOLS

Symbols on the Inverter



1

Installer contact

Operation Display.

An error has occurred. Please inform your installer immediately.



Bluetooth[®]. Bluetooth communication active.*

Symbols on the Type Label

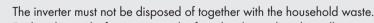


Beware of dangerous electrical voltage. The inverter operates at high voltages. All electrical work on the inverter must be carried out by qualified personnel only.

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



Observe enclosed documentation.



VISUAL INSPECTION, MAINTENANCE AND CLEANING

Visual inspection

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

Maintenance and Cleaning

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

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



Further disposal information can be found in the enclosed installation guide.



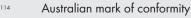
CE mark. The inverter complies with the requirements of the applicable EC guidelines.



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



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



Korean mark of conformity



- 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.

Abbreviation for "direct current"

Electronic Solar Switch (ESS)

The Electronic Solar Switch is part of the inverter's DC disconnection unit. The 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 Boy is currently feeding into the grid.

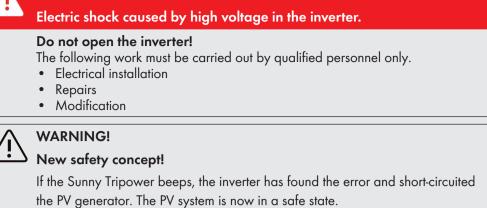
PV

Abbreviation for photovoltaics.

SAFETY PRECAUTIONS

DANGER!

PRODUCT OVERVIEW



- On no account disconnect the Electronic Solar Switch or the DC plug connector.
- Please inform your installer immediately so that he can eliminate the error.

CAUTION!

- Risk of burns through contact with the enclosure during operation.
- Only touch the lower lid and display during operation.

GRAPHIC DISPLAY

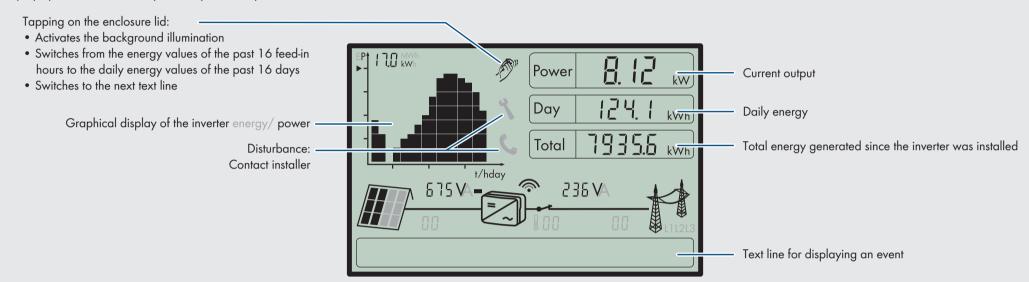
The display updates the values of your PV system every 5 seconds.

Serial number SUNNY TRIPOWER STP 10000TL-10 Lower enclosure lid Graphic display **Electronic Solar Switch**

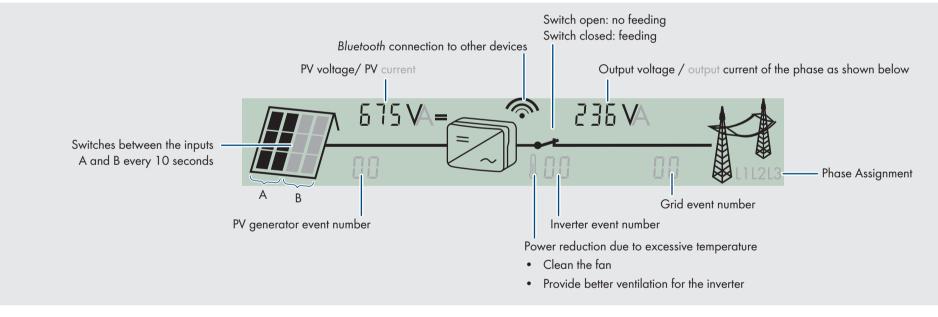
LEDs

Identification of the inverter by the type label

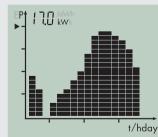
SMA



SYSTEM 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

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.

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 bar 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.



kWh Total 7935.6 kwh

Power

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

Day

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

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 system management and to control the current to be fed to the grid. The inverter does not have a calibrated meter.

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:	The inverter has been incorporated into a <i>Bluetooth</i> network and can communicate with other devices with identical NetID.
	Blue LED is flashing:	The inverter was identified via Sunny Explorer by setting the "Find device" parameter.