



SOLAR POWER ON-GRID RANGE 2013

ReneSola



steca
Elektronik

**NEUTON
POWER**



www.yhipower.co.nz



High Module Conversion Efficiencies



Easy Installation and Handling



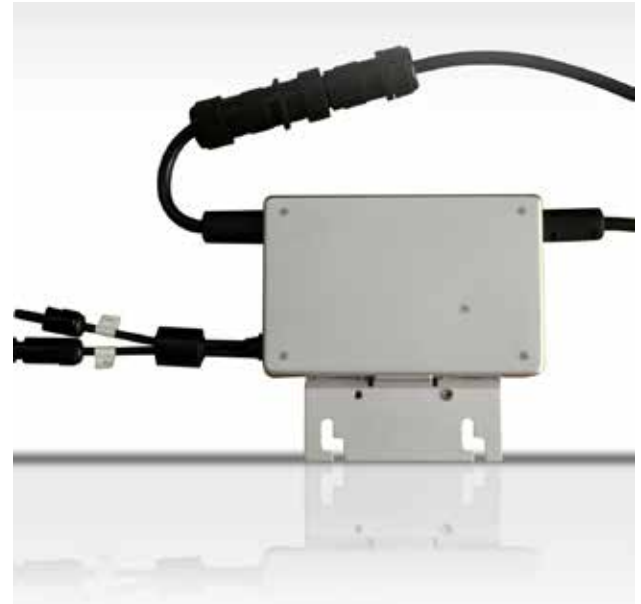
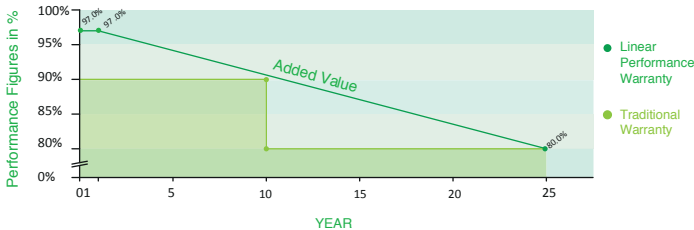
Mechanical Load Capability of up to 5400 Pa



Conforms with IEC 61215:2005,
IEC 61730: 2004, UL 1703 PV Standards,
IEC 61701 (Salt mist corrosion testing of solar modules)



ISO9001, OHSAS18001, ISO14001 Certified



The smart design of ReneSola's Micro Replus inverters improve solar PV harvesting and reliability. The Micro Replus System includes the micro-inverter, MRG Communications Gateway, and Monitoring Software.



Maximum power production; Resilient to dust, debris, and shading



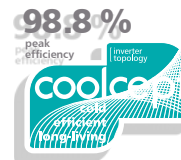
MPPT efficiency greater than 99.5%; No single point of system failure



Simplified PV system design & installation; Performance monitoring for each PV module



Low DC input voltage, resulting in safe installation



SUNNY BOY 5000TL

Perfection Plus. Usability. The transformerless Sunny Boy

More communicative, easier to use and more efficient than ever: this Sunny Boy is setting new standards in inverter technology. A modern graphic display, readout of daily values even after sunset, simplified installation concept and wireless communication via Bluetooth® : The new Sunny Boys fulfill every wish. With the new OptiTrac Global Peak shade management and an optimal efficiency of 97% the inverters ensure optimum solar yield.

As transformerless, multi-string devices, the Sunny Boy 5000TL provide maximum flexibility for plant design, and are the first choice for demanding generator designs.

Safe

- Integrated ESS DC switch-disconnector

Simple

- Easily accessible connection area
- Capable connection without tools
- DC plug systems SUNCLIX

High Yields

- Maximum efficiency of 97%
- Multi-String technology
- Transformerless, with H5 topology
- Shade management with OptiTrac Global Peak

Communicative

- Bluetooth® technology
- Multilingual graphic display
- Multi-function relay

Reliable

- 5 year SMA warranty

YHI PART CODE

#SB5000TL20

STECAGRID 3600

“Coolcept” Inverter topology - Innovative circuit design that achieves highest efficiency. The “coolcept” inverter topology is based on a single-stage transformerless switching concept that uses proven standard components to implement symmetric step-down converters with downstream pole-reversing circuits.

Highest efficiency with longer service life

The high efficiency results in a peak efficiency of 98.8 % and a European efficiency of up to 98.3 %, which results in less lost power. This improves your yields. The efficiencies of these inverters are only very slightly dependent on the module input voltage. This allows the number and type of modules to be freely selected without resulting in a yield loss. A new and unique cooling concept inside the inverter ensures an even distribution of the dissipated heat and a long service life for the device.

Product design and visualisation

For the first time, the very high efficiency allows the use of a design housing made of plastic. This offers many advantages, for example in the installation. The overall surface temperature of the StecaGrid remains very low. The inverters have protection class II.

Graphical LCD display for visualising the energy yield values, current performance and operating parameters of the system. Its innovative menu allows individual selection of the various measurements. The guided, pre-programmed menu allows easy final commissioning of the device

Product features

- Highest efficiency
- Simple installation
- Integrated data logger
- Firmware update possible
- Low housing temperature at full load
- Functionally perfect, environmentally-friendly plastic housing
- Lowest possible own consumption
- Integrated DC circuit breaker
- Protective insulation according to protection class II
- Very long service life
- Droop Mode for integration in hybrid systems
- Fixed voltage mode for other energy sources
- Service menu for parameter adjustment
- 7-year warranty after registration with Steca

Displays

- Multifunction graphical LCD display with backlighting
- Animated representation of yield

Operation

- Simple menu-driven operation
- Multilingual menu navigation

Options

- System monitoring with Solar-Log™ and WEB'log
- Can be connected to the StecaGrid Vision display unit or a large-format display



SUNNY TRIPOWER 10000TL / 17000TL

The three-phase inverter for easy plant design

Full of pioneering technology: high flexible plant design with the three-phase Sunny Tripower inverter. Thanks to Optiflex technology, two MPP inputs and a broad input voltage range, it is suited to almost any module configuration.

It fulfills all requirements such as those for reactive power provision and grid support, and it is thus a reliable participant in grid management. The Optiprotect safety concept, with its self-learning string failure detection, electronic string fuse and integrable DC surge arrester type II, ensures maximum availability

Economical

- Maximum efficiency of 98.2%
- SMA Optitrac Global Peak MPP tracking for best MPP tracking efficiency
- Bluetooth communication

Flexible

- DC input voltage up to 1000 V
- Integrated grid management functions
- Tailor made plant design with Optiflex

Simple

- Three-phase grid feed-in
- Cable connection without tools
- SUNCLIX DC plug-in system
- Easily accessible connection area

Reliable

- Triple protection with Optiprotect: electric string fuses, self-learning string failure detection, DC surge arrester which can be integrated (type II)
- 5 year SMA warranty

YHI PART CODES

#STP10000TL

#STP17000TL



SUNNY HOMEMANAGER

The control center for smart energy management

With its standard access to Sunny Portal, the Sunny Home Manager is the ideal solution for simple plant monitoring and intelligent energy management. It provides an overview of all the energy flows taking place in the household, displays recommended actions and is able to control loads via SMA radio-controlled sockets automatically. The device learns the typical consumption pattern of the household and combines this information with a forecast of the plant-specific PV generation. As a result, the Sunny Home Manager enables a much higher self-consumption ratio and a highly efficient use of energy from the environmental point of view.

Innovative

- Consumption analysis for each individual load
- Regional weather forecasts taken into account
- Display of recommended actions for load management

Simple

- Automatic, intelligent control of loads with maximum 10 SMA radio-controlled sockets
- Convenient commissioning with the plant setup assistant
- Free standard access to Sunny Portal with all basic functions

Transparent

- Convenient plant monitoring via Sunny Portal
- Overview of all energy flows in the home
- Visualization of the weather forecast and PV yield forecast

Flexible

- Several standardised meter interfaces
- Individual specifications for controlled devices

YHI PART CODE #SMAHOMEMANAGER



Neuton Power Mounting Systems

Pitched Roof Racking System

Designed with great flexibility for both commercial and residential applications the Neuton Power Pitched Roof Racking system is suitable for installing both framed and frameless modules flush to a pitched roof.

Special extruded Aluminium rail, pre-assembled clamps and varied roof hooks or brackets with tilt-in module ensure easy and quick installation - saving on labour time and cost. The customised rail lengths do not require onsite cutting or welding.

Easy Installation: The tilt-in module can be put into the extruded rail from any section and can be pre-assembled with the clamp and roof hook.

Flexible & Adjustable: These systems accommodate most commercially available framed or frameless solar modules and diverse roof types.

Safety & Reliability: These systems can stand up to extreme weather and comply with AS/NZS 1170 load standards

