

# SUNWAY TG

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**Utility-scale central inverters**

## UTILITY-SCALE CENTRAL INVERTERS

Sunway TG1200 1000V and Sunway TG1800 1500V are the keystones of Santerno's photovoltaic products portfolio.

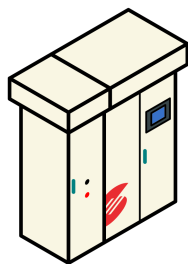
Built around a newly designed power converter and featuring innovative reliability- and maintenance-oriented solutions, Santerno utility-scale central inverters deliver top-of-class performances while lowering costs and streamlining O&M.

A native modular architecture, compatibility with both 1000V and 1500V photovoltaic panels and a wide set of optional devices enable integration of these inverters in any plant configuration.

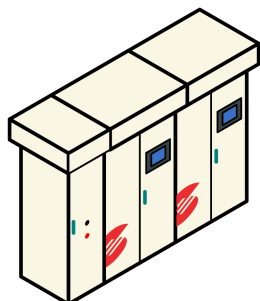
**99% TOP-OF-CLASS EFFICIENCY**

**MODULAR ARCHITECTURE**

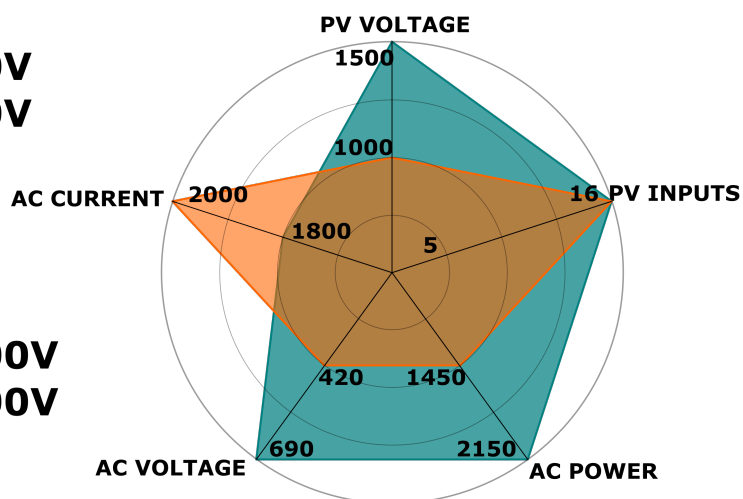
**ELECTROLYTIC-FREE DESIGN**



**1 MPPT**  
**SUNWAY TG610 1000V**  
**SUNWAY TG900 1500V**

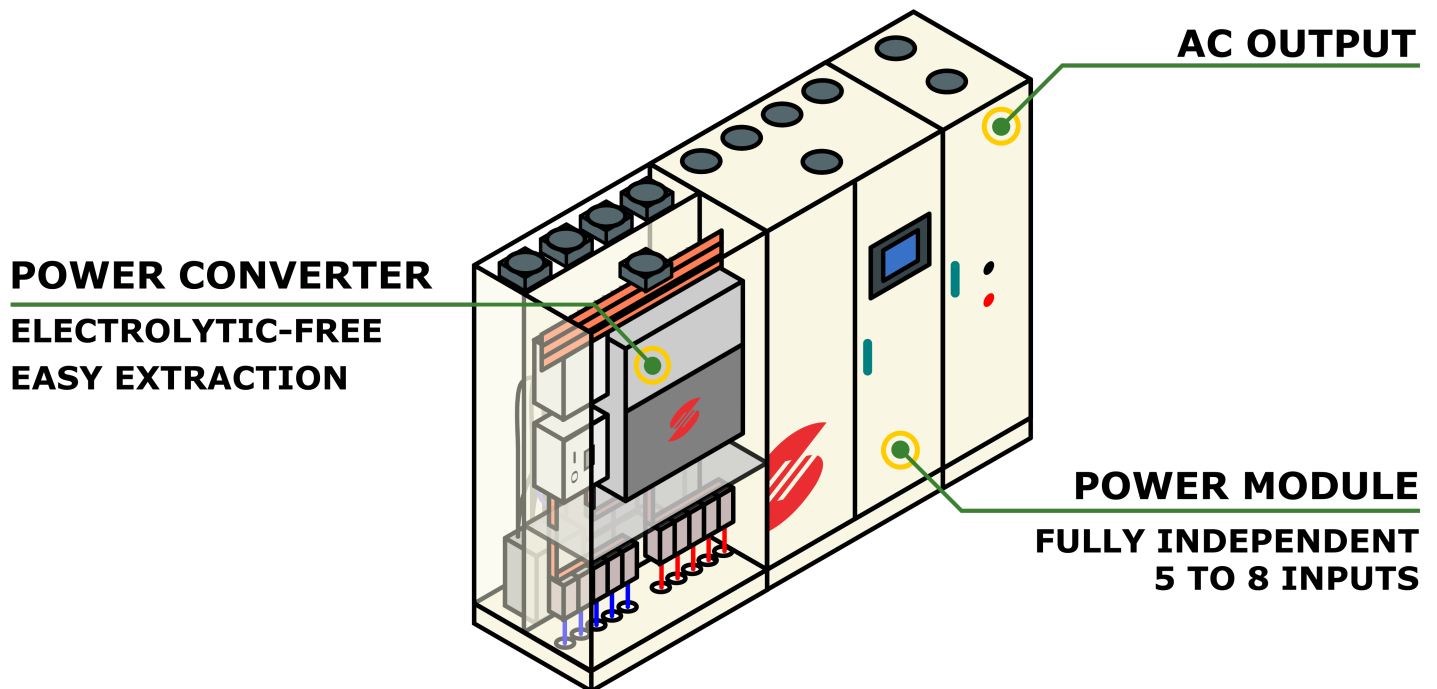


**2 MPPTs**  
**SUNWAY TG1200 1000V**  
**SUNWAY TG1800 1500V**



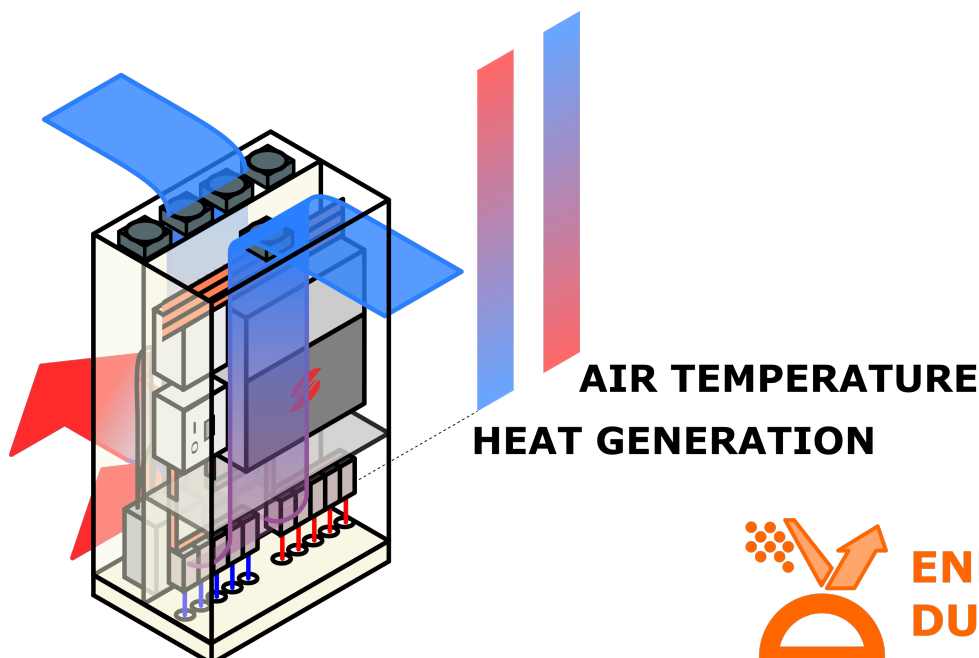
## MODULAR ARCHITECTURE

A newly designed power converter and a modular cabinet architecture are at the heart of Sunway TG1200 1000V and Sunway TG1800 1500V inverters. Power modules can be connected to the same AC output element. AC output elements can then be paralleled to further increase output power. The power converter delivers a top-of-class efficiency while retaining long-term reliability thanks to its electrolytic-free design.

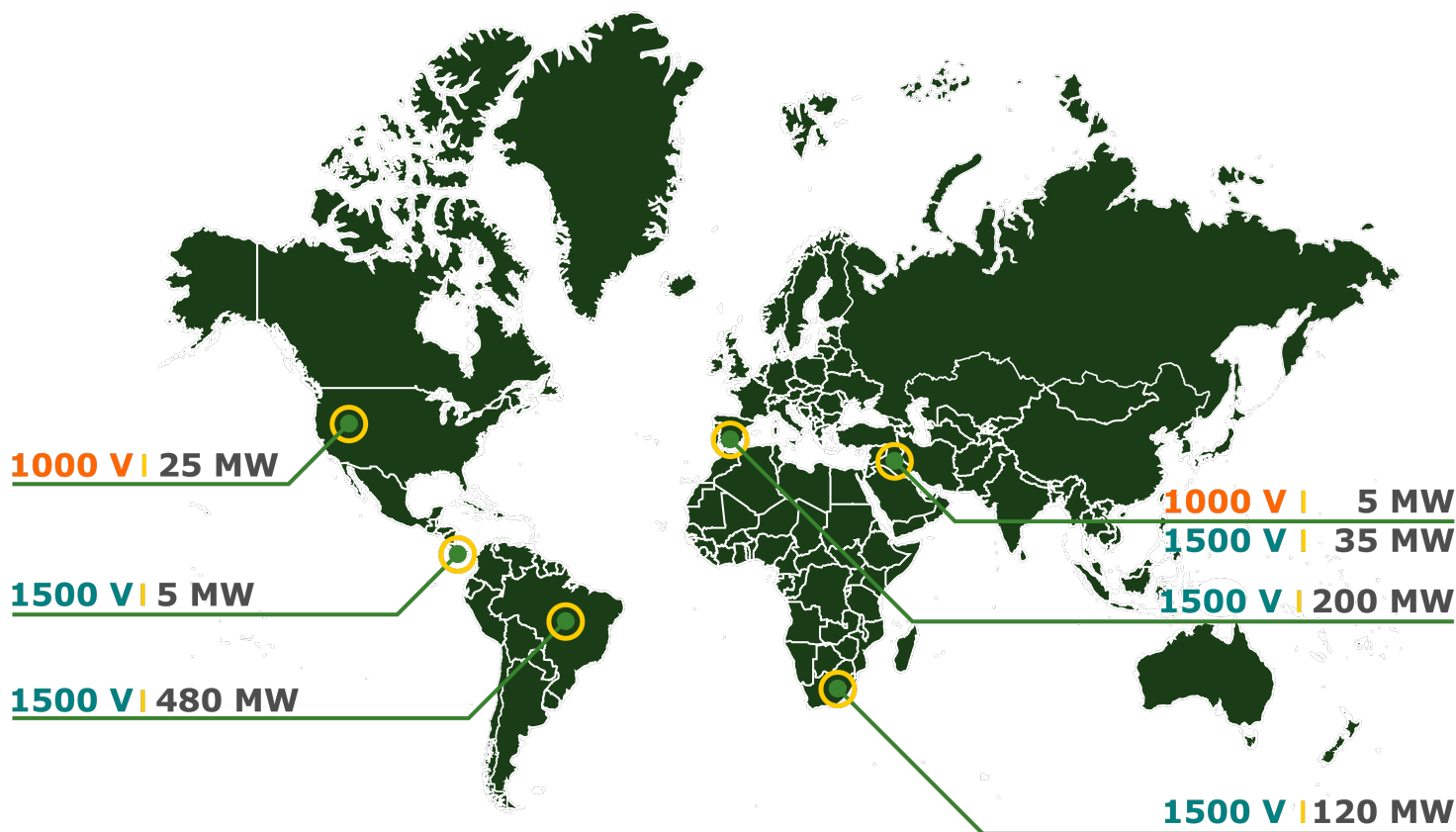


## HEAT MANAGEMENT

Sunway TG1200 1000V and Sunway TG1800 1500V implement a counter-current heat exchange solution which maximizes heat removal and lowers fans usage. Fresh incoming air flows through the hottest components first, so that heat exchange peaks where is most needed. Moreover, air intakes are placed at the top of the product, while outlets are in the bottom part, ensuring enhanced protection against dust.



## WORLD-WIDE DEPLOYMENT



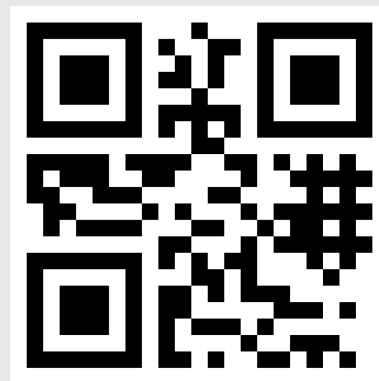
Sunway TG1200 1000V and Sunway TG1800 1500V inverters boast a world-wide deployment track record. Plants ranging from 1 MW up are already powered by these inverters or scheduled to come online by 2019 in several Countries across four continents.

Santerno leverages the technical and logistic expertise built in past and running projects to deliver current and new customers state-of-art solutions on schedule even in the most remote areas of the globe.



KEY FEATURES	
Efficiency	Newly designed power converter and control algorithm raise the bar of efficiency performance to 99%.
Reliability	Optimized heat management and electrolytic-free power conversion module for long-term reliability,
Ease of maintenance	Design for Maintenance approach streamlines all O&M operations and slashes maintenance costs.
Ruggedness	Electronics coating and enhanced dust protection make the product ready for long-term operation in harsh environments.
Input fuses	Integrated DC parallel, with fuses on both positive and negative poles streamline plant design and simplify DC cables routing and verification.
SPDs	AC and DC surge protection devices warrant protection against atmospheric events.
Connectivity	State-of-art connectivity enables seamless integration in plant monitoring infrastructure.
Monitoring	Integrated monitoring and logging and plug-and-play integration with santerno.io portal deliver customers further added value off the shelf.
Compliance	An installed capacity in excess of 5 GW is testament to the full compliance of Santerno products to international grid codes and standards.

TECHNICAL SPECIFICATIONS	
DC input voltage	1000 V, 1500 V
Independent MPPTs	Up to 2
DC Inputs	Up to 8 per MPPT
AC output voltage	Up to 690 V <sub>AC</sub>
AC output current	2000 A @ 25 °C, 1800 A @ 45 °C (1000 V) 1800 A @ 25 °C, 1600 A @ 45 °C (1500 V)
AC output power	1450 VA @ 25 °C, 1320 VA @ 45 °C (1000 V) 2150 VA @ 25 °C, 1912 VA @ 45 °C (1500 V)
Communications	Ethernet, RS-485
Data protocol	Modbus TCP, Modbus RTU
Ingress Protection	IP54 (IP20 open doors)
Dimensions	2.0 x 1.3 x 2.4 m (1 MPPT) 3.2 x 1.3 x 2.4 m (2 MPPTs)



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