

SUNWAY TG

Centralized inverter
for utility-scale systems

www.enertronicasanterno.it



CENTRALIZED INVERTERS

Designed for medium and large photovoltaic parks, the SUNWAY TG inverters offer high-level performance and guarantee maximum power density and high operability. Manufactured with a newly developed power converter, these products represent an innovative solution for maximum reliability, minimal maintenance requirements, excellent performance and reduced costs.

The SUNWAY TG inverters are available with 1000 Vdc voltage for SUNWAY™ TG 1000V TE model and with 1500 Vdc voltage for SUNWAY™ TG 1500V TE model. Both types are available with the single module version (1MPPT) and the double module version (2MPPTs).

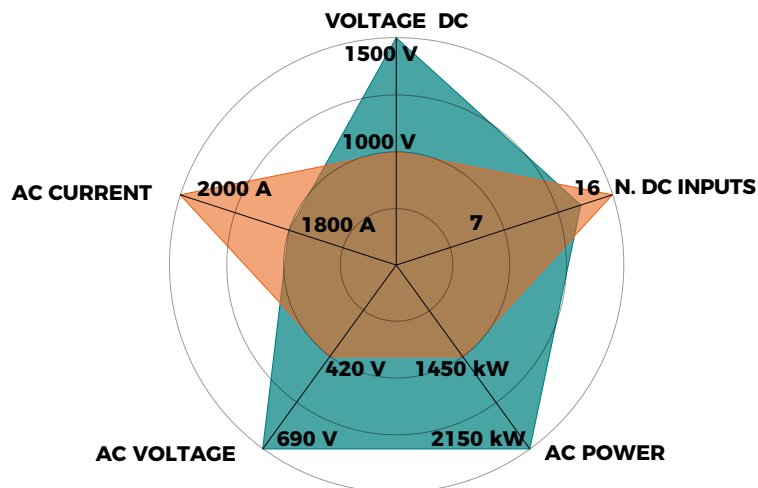
Thanks to the modular architecture, the wide application configurability, the extended operating ranges and plenty optional devices, Santerno central inverters can be integrated in every application scenario: new PV projects, "legacy" revamping/replacement and hybrid PV+STORAGE technology systems.



SINGLE MODULE - 1 MPPT
SUNWAY™ TG 610 1000V
SUNWAY™ TG 900 1500V



DOUBLE MODULE - 2 MPPTs
SUNWAY™ TG 1200 1000V
SUNWAY™ TG 1800 1500V



98,7% MAXIMUM EFFICIENCY

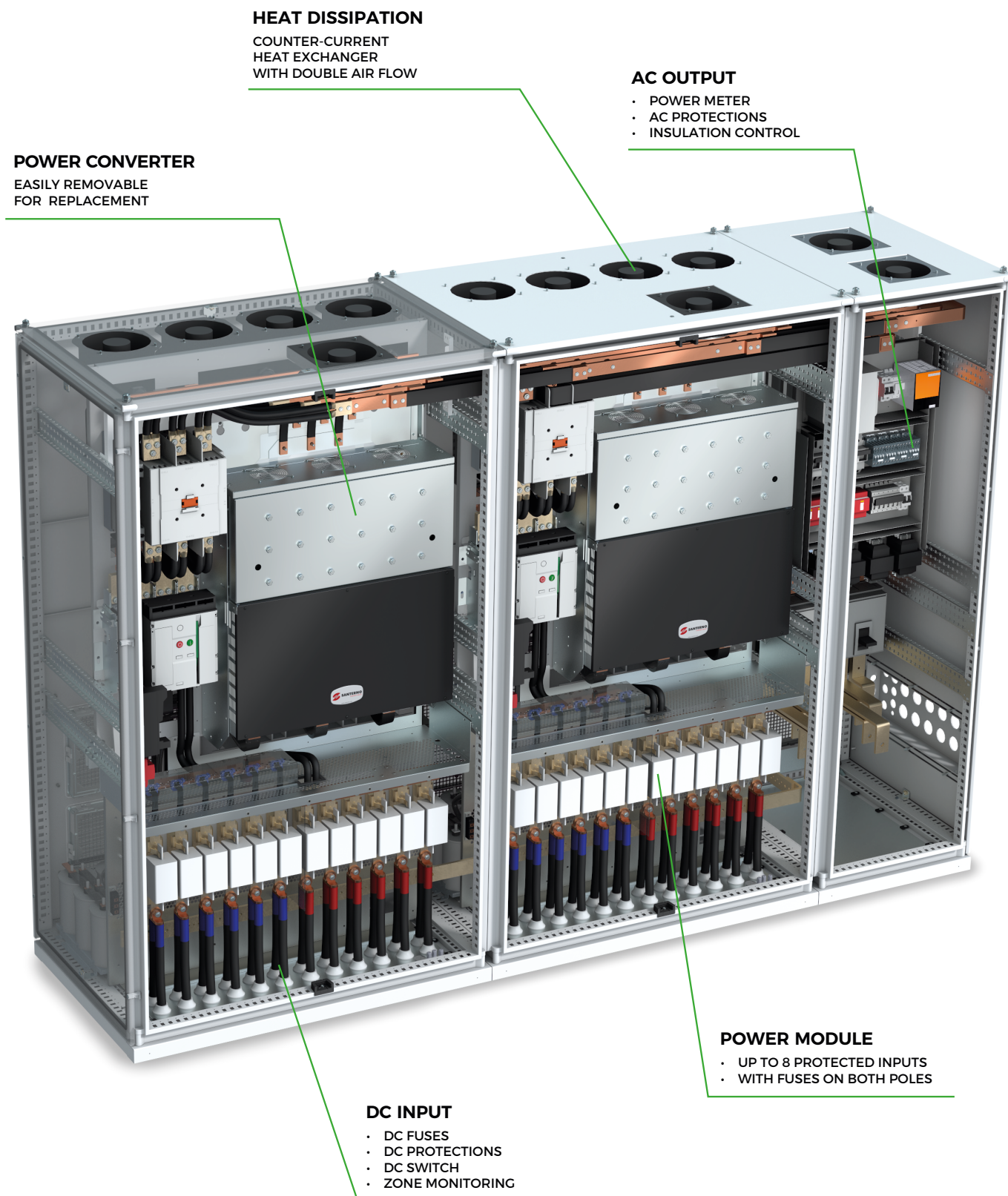
MODULAR ARCHITECTURE

ELECTROLYTIC CAPACITOR-FREE EXECUTION

MODULAR ARCHITECTURE

The SUNWAY™ TG 1200 1000V and SUNWAY™ TG 1800 1500V inverters feature several advantages, including but not limited to:

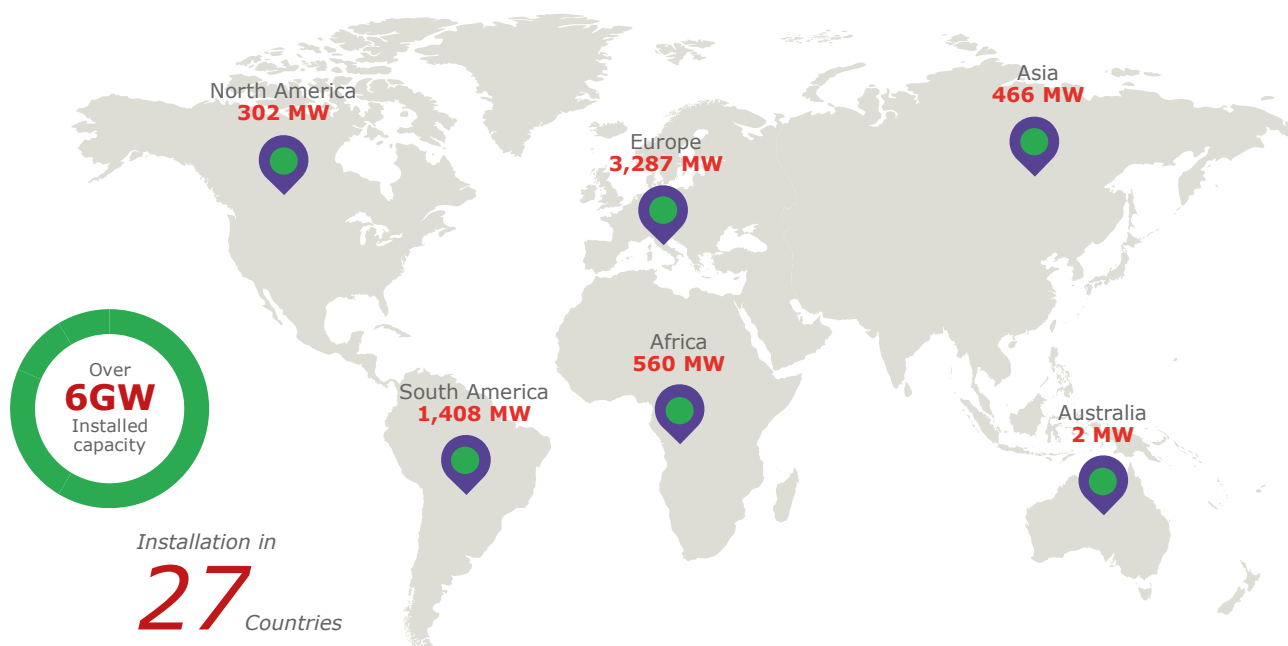
- ✓ the possibility of connecting the two power modules to a single or double secondary transformer
- ✓ the possibility of connecting one of the two modules to a storage system (for Hybrid PV+STORAGE applications)
- ✓ operation ensured even in the event of a failure of one of the two modules
- ✓ ease of maintenance



MAIN FEATURES	
Efficiency	Efficiency of 98.7% thanks to the control algorithm and the new developed power converter
Reliability	Reliability driven design, use of long-lasting components, hardware and software redundancy, advanced diagnostic system, optimized heat recovery
Easy maintenance	Designed to simplify maintenance and O&M operations, reducing operating costs
Suitable for extreme conditions	Design and construction processes of the highest standards ensure long-term operation in extreme environmental conditions
Input fuses	The integrated DC panel with easily accessible positive and negative pole fuses simplifies cable laying and checking
Surge loaded	AC and DC surge dischargers ensure protection against atmospheric events
Connectivity	Connectivity with standard protocols, for effective integration with the plant data network
Monitoring	The integrated connectivity and logging offer to customers a powerful monitoring solution, immediately available on santerno.io portal
Conformity	With more than 6 GW of installed power worldwide, Santerno products have a leading position in international grid code compliance standards

TECHNICAL SPECIFICATIONS				
Model	SUNWAY™ TG 610 1000V TE	SUNWAY™ TG 1200 1000V TE	SUNWAY™ TG 900 1500V TE	SUNWAY™ TG 1800 1500V TE
Output voltage	Up to 420 Vac		Up to 690 Vac	
Number of independent MPPT	1	2	1	2
Output power	Up to 727 kVA @25°C	Up to 1455 kVA @25°C	Up to 1076 kVA @45°C	Up to 2152 kVA @45°C
Maximum output current	1000 A @25°C	2000 A @25°C	900 A @45°C	1800 A @45°C
DC input voltage	1000 V		1500 V	
Maximum Input Current	1500 A	3000 A	1500 A	3000 A
Number of DC Inputs	8	16	7	14
DC Fuses	Yes, on both poles (number and size configurable)			
DC side protections	Disconnecter Switch, Surge Protector Device, Insulation Fault Monitoring			
AC side protections	Circuit-Breaker, Grid Fault Monitoring			
Communication / Protocol	Modbus Ethernet, RS485 / Modbus TCP, Modbus RTU			
Network Capabilities	LVRT, Reactive Power Control, Frequency and Voltage Control			
Monitoring	Integrated Datalogger, Santerno.io portal accessibility			
Application - IP protection	Outdoor: IP 54 / Indoor: IP 20			
Options	AC Surge Protector Device, AC Insulation Fault Monitoring, Earthed Pole, Hard and Soft Grounding, AC Power Meter, Zone Monitoring (Measurement Of Input Currents), Self-Feeding, Mirrored Execution			
Dimensions (Outdoor)	2025 x 2470 x 1025 mm	3224 x 2470 x 1025 mm	2025 x 2470 x 1025 mm	3224 x 2470 x 1025 mm
Weight (Outdoor)	1780 kg	2770 kg	1780 kg	2770 kg

WORLDWIDE DISTRIBUTION



Santerno inverters are distributed and installed all over the world.

Thanks to its technical expertise, knowledge of network connection regulations and experience in the logistics field, Santerno provides its customers with cutting-edge solutions in all geographical areas of the world, respecting delivery time.



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