

Solar photovoltaic systems require high-performing inverters able to meet the most demanding requirements in terms of availability, economic efficiency and grid stability. As a pioneer in electrical power conversion, Convertteam is the most appropriate partner to answer your specific needs.



ConverSOL inverter range - Air-cooled type

A strong experience in wind and renewable energy

As a pioneer in the renewable energy segment, Convertteam has been able to establish itself as a global leader for design and manufacturing of wind converters with more than 5GW of converters supplied every year. ConverSOL inverters represent the continuation of the ongoing development of inverter technology in the field of environmentally-friendly power generation.

A compact and modular approach to optimize energy yield

ConverSOL inverter combines in one cabinet three main functions:

- Power conversion based on an IGBT structure
- Control-command featuring MPPT and teaming capabilities
- Auxiliary and protections.

The inverter is composed of up to six modules connected in parallel.

Connection to different DC bus offers ConverSOL a unique multi-MPPT feature which allows the solar panels to operate at their maximum efficiency.

ConverSOL electrical system offers many advantages:

- Excellent international grid compatibility
- High yield and reliability for higher performances
- Modular and compact design for more flexibility
- Easy maintenance.

A complete range of inverters from 170kW to 1700kW

The Convertteam modular approach allows us to select the most appropriate configuration for our customers and deliver reliable and cost-effective solutions, achieving up to 97% efficiency.

Rated Power (kW)	Cooling	Maximum PV Power (kW)	Nominal AC Power (kW)	MPPT Voltage Range (V)	Max DC Current (A)
170	Air-cooled	190	170	450-820	420
340	Air-cooled	380	340	450-820	840
500	Air-cooled	560	500	450-820	1260
670	Air-cooled	752	670	450-820	1680
840	Air-cooled	943	840	450-820	2100
1000	Air-cooled	1122	1000	450-820	2520
1275	Liquid-cooled	1430	1275	450-820	3060
1700	Liquid-cooled	1908	1700	450-820	4080

Converteam ConverSOL series (standard portfolio)

Compliance to future grid codes

Drawing upon Converteam experience in wind, ConverSOL inverters meet the grid code requirements of worldwide network operators, including:

- No switch-off during voltage dips
- Capacitive power support during voltage dips.

This capability is offered either at the installation stage or as upgrade packages as and when grid codes evolve. Advanced simulator systems and test benches enable us to test and validate constraints imposed by each country.

An open control and monitoring system

The data logger system enables time-defined logging of electrical input and output variables.

Unexpected as well as pre-defined events can be transmitted immediately across the ConverSOL system via Internet or SMS.



| ConverSOL liquid-cooled power electronics

Converteam experts to analyze any default from remote and generates long-term analyses for the continuous improvement of the overall system.

Technical data:

Input DC

- Power Range: 190 kWp ...1900 kWp
- DC MPPT: 450 V...820 V
- Max DC Voltage: 900 V / 1200 V
- Max current: 420 A / 1020 A per bridge

Output AC

- Power Range: 170 kW / 180 kVA... 1700 kW / 1800 kVA
- Main Voltage: 20 kV / 30 kV ($\pm 10\%$)
- AC current distortion: < 3 % THD
- Frequency: 50 Hz / 60 Hz
- Efficiency: > 97 %
- Possible reactive power support: 0.95 ind.- 1 - 0.95 cap.
- Container type: outdoor
- Ambient temperature: -20°C...50°C
- Interfaces: Ethernet, Can, Ethercat, Profibus, wireless connection.



| Photovoltaic installation

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