

Consistently boosting the performance of electrical systems is an extremely important factor when it comes to meeting the increasing economic requirements placed on the efficiency of photovoltaic power plants. Converteam is an established partner of customized electrical solutions for state-of-the-art power electronics applications that meet the highest requirements in terms of availability, economic efficiency and grid stability.



| ProSolar Power Station as container solution

of the power supply market, and the future requirements for inverters are correspondingly high. ProSolar central inverters from Converteam not only convert the direct current generated in the solar modules into alternating current for feeding into the grid, but are also actively involved in grid safety management. This means that grid operators must be capable of shutting down photovoltaic systems by way of remote control in the event of a grid overload condition. ProSolar inverters meet the grid requirements of network operators, which are defined in the latest medium-voltage directive of the BDEW – a key prerequisite for grid stability.

The Most Appropriate Partner to Secure Your Success

Our long track history as a supplier of electrical systems for wind turbines and our bundled expertise in research, development and production of electrical systems for robust industry applications, rail and marine systems are the base for a strong partnership. Converteam has always been, and still is, a pioneer in the fields of electrical power conversion and

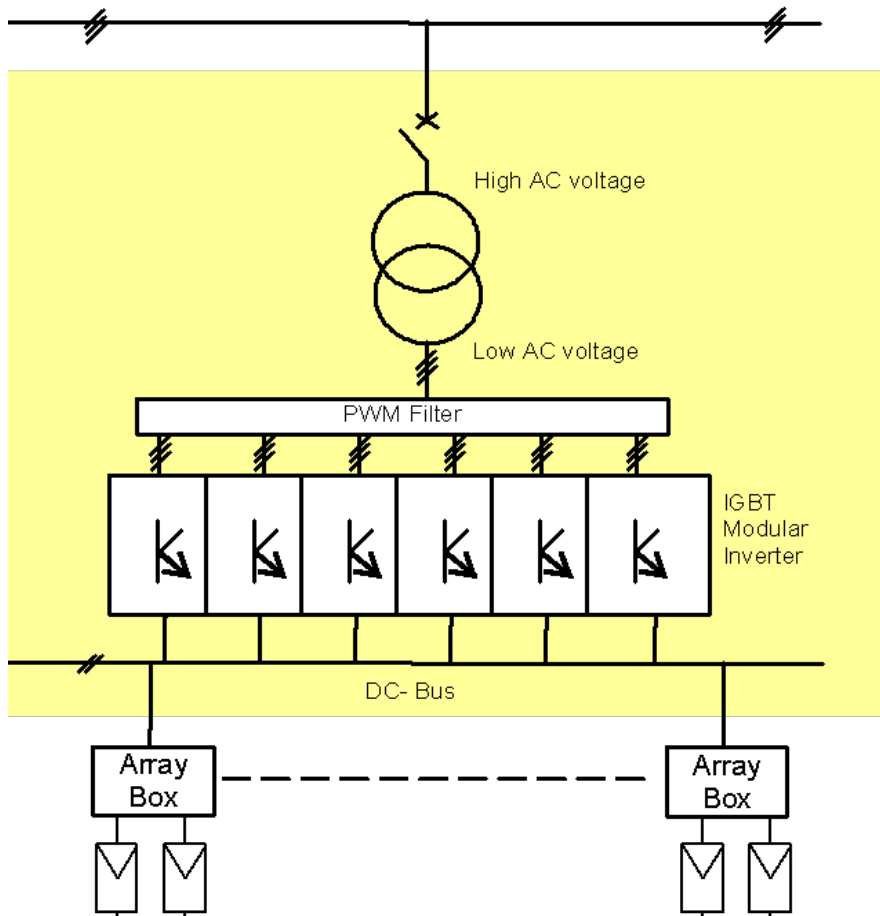
power quality. We cooperate closely with customers in order to plan and design the optimum electrical system, manufacture and test the system solution and offer made-to-measure logistics concepts that address our customers' specific needs.

Powerful Inverter Stations

In the coming years, photovoltaic technology will occupy a growing share

A Host of Possibilities

Ready-to-connect medium-voltage stations in mobile containers are offered for outdoor use. The delivery includes the inverters, the low-voltage and medium-voltage switchgear and the medium-voltage transformer. The extended DC input voltage range of more than 1000V on the one hand and the omission of the low-voltage transformer on the other mean significantly



via the remote maintenance connection.

Technical Data

Input (DC)

Power range: 1,000 kWp ... 1,360 kWp /
DC-MPPT: 450 V ... 820 V
Max. DC voltage: 1,000 V / 1,500 V
Max. current: 2 x 1,000 A

Output (AC)

Power range: AC 850 kW /
900 KVA ... 1,200 kW / 1,260 kVA
Mains voltage: 20 kV, 30 kV (±10 %)
Mains frequency: 50 / 60 Hz
AC current distortion: < 2 %
Efficiency: > 98 %
Possible reactive power support:
0.95 ind.- 1 - 0.95 cap.
Ambient temperature: -25 °C - +55 °C
Container type: Outdoor
Interfaces: Ethernet, Can, Ethercat,
Profibus, wireless connection

Solutions for Megawatt range on request

Scope of supply for a Power Station

higher equipment efficiency. Our standardised basic inverter system ProSolar can be perfectly adapted to different power configurations of large photovoltaic power stations. The main advantages of ProSolar inverter systems include high design flexibility as well as tried-and-tested electronic control as the heart of the system. Thanks to their compact design, the water-cooled 5 MW converter systems require significantly less space than the comparable air-cooled systems.

Reliability is Our Top Priority

The HPCi-P controller handles all functions of inverter control, setpoint pre-setting, monitoring and optional remote monitoring. The control structures of the pulse-controlled inverters on the generator and grid ends meet the

most demanding specifications in terms of grid behaviour, control response and user-friendliness. This is also applicable to the increased grid stability requirements of utility companies. Converteam frequency converters feature flexible communication concepts and powerful visualization and operating software. The data logger integrated in the ProSolar inverter enables time-defined logging of electrical input and output variables. Unexpected as well as pre-defined events can be transmitted immediately across the ProSolar system via the Internet or SMS. A remote diagnostic function, operating via web-portal, enables Converteam specialists to diagnose the plant and to take action 24 hours a day anywhere in the world. Cyclic preventive measures can also be supported by Converteam

Converteam GmbH
Culemeyerstraße 1
12277 Berlin (Germany)
Tel.: +49 (0) 30 76 22 33 86
Fax: +49 (0) 30 76 22 36 64
postoffice.de@converteam.com

France Tel.: +33 (0) 1 77 31 20 00
UK Tel.: +44 (0) 1788 563 563
USA Tel.: +1 412 967 0765
Brazil Tel.: +55 31 3330 5800
China Tel.: +86 21 6442 1666 ext 8000
India Tel.: +91 124 4200190
Russia Tel.: +7 495 225 1916