High power solar inverter

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Profitable. Secure. Lucrative.

1500 VDC, 125/150/165/172 kW, compact design

PEAK3 stands for pure power. With its compact design, the inverter offers maximum power density at minimum weight. This results in less expensive transportation and simplified installation. In combination with the project-specific DC Combiner Boxes, the PV array can be oversized up to 200 %. The Data Manager powered by ennexOS completes the system and enables it to fulfill all of the grid operator"s requirements.

SMA offers the ONLY 1,500 VDC inverter with the capability of interconnecting at 480 VAC without adding significant additional equipment and incurring lost energy production. For large ground mount projects, SMA"s PEAK3 delivers the most costeffective solution and highest energy production.

Which is the best layout for a large-scale PV power plant?

The PEAK3 inverter focuses on what is most important - maximum yield and optimal plant availability. All features and functionality have been specifically engineered to reduce weight, minimize potential error sources and maximize efficiency. Field-proven OptiCool(TM) active cooling technology ensures reliable, long-term operation.

The PEAK3 system solution combines the advantages of a decentralized system layout with those of the central inverter concept. The DC Combiner Boxes enable efficient planning and easy expansion of large-scale solar plants even on irregular terrain. Thanks to the modular approach, projects can be scaled both in terms of power and function. This means maximum flexibility in the plant design.

The PEAK3 system solution is ready for ennexOS, SMA"s ground breaking digital platform. ennexOS converges the data of all relevant energy sectors to achieve modern, forward-looking energy solutions. The platform is regularly updated and currently offers powerful features such as satellite-based performance ratio monitoring.

The PEAK3 system solution offers smart functionalities for quick and safe installation of all devices. Ergonomic grips and the integrated hook-in mechanism simplify the mounting of the inverters. Large, stiff DC cables can be conveniently routed via a separable connection plate and allow hassle-free connection. Centralized commissioning and control is easily achieved with theSMA Data Manager.

Each device can be controlled directly via reliable, fast Ethernet communication between Data Manager and inverter. The entire plant portfolio can be centrally monitored with the new Sunny Portal powered by

ennexOS. Changes to the configuration are easily made across plants without setting up multiple VPN connections. Additional monitoring systems can access all devices via the open Modbus / TCP interface.

More than 20 years of utility experience have gone into the development of the PEAK3, which is SMA"s latest addition to a comprehensive portfolio of utility solutions. This 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized system for utility-scale PV integrators.

Thanks to an intelligent system structure, all inverters and the Data Manager are installed centrally. The DC Combiner Boxes are distributed in the field. The result: maximum performance, cost-optimized cabling and improved installation and maintenance.

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