

Automation and Drives

For the trade press

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Highly effective solar plants

Siemens Automation and Drives (A&D) now offers modularly expandable inverters for all conventional photovoltaic plants. The Sitop solar product range has no transformers, making it especially low loss. It features a wide MPP (Maximum Power Point) voltage range of 200 to 550 V DC – with a maximum power of 6.5 amperes. Users can adjust the devices, with an efficiency rating of over 94 percent and just 5.3 kg in weight, individually to the common solar plants on the market. The new, compact inverters of just 430x175x135 mm (HxWxD) are suitable for everything from detached family houses to functional commercial buildings. The Siemens product range is directly aimed at the needs of private home-builders and commercial solar power operators alike.

The modular design ensures highly reliable planning and flexibility. With the Sitop solar master module and a maximum of two slave modules, the inverter's performance can be individually adapted to local conditions – for example, to differently aligned or dimensioned solar fields. Modularity is also helpful for upgrades if you intend adding more solar cells to your photovoltaic plant later on. Another special feature unique on the market is the inverter's high efficiency rate of over 94 percent – even in the partial load range under minimal solar radiation. That ensures low heat dissipation at all times – giving you a faster return on your investment. In Germany, a rate of 48 euro-cents is currently being paid for each kilowatt-hour fed back into the public power grid. Operators of photovoltaic systems pay the regular power utility rates for power they consume from the public power grid.

The Sitop solar master and slave modules feature an identical nominal power rating of 1.5 KVA (kilo-volt-ampere) each with a maximum power rating of 1.7 KVA for irradiation peaks. That enables users to set up systems with up to 4.6 KVA AC power rating per phase. Another special feature is the running LED which shows the amount of power being fed back into the power grid, similar to the electric meters for the power being consumed.

The integrated data logger can archive up to 28 days of measurement and operations data from the master and slaves. The data can then be transferred by modem and analyzed on a PC. The PC visualization software Sitop log was developed to call up and display device parameters or measurements online. Sitop solar can be properly dimensioned with the help of configuration software which is available on the Internet free of charge.

Further information can be found on the Internet at: <http://www.siemens.de/sitop/solar>

A picture accompanies this press release. You can find this picture on the Internet at: <http://www.siemens.com/ad-picture/122>

You can find the text on the Internet at: <http://www.siemens.de/automation/presse>



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