

Press release: Photovoltaics, renewable energy, inverter technology, power electronics, electronic components, Intersolar 2012:

Highly efficient – Low-loss inductors for solar power inverters

Graben-Neudorf, Germany, January 2012. SMP shows chokes for solar power inverters at this year's Intersolar in Munich, Germany. Compact and low-loss with low stray fields, the chokes facilitate outstanding inverter efficiency.

The chokes' cores consist of powder composites with low magnetostriction, which SMP specifically engineers for each application. With the low eddy current and hysteresis losses of these materials, the chokes allow the construction of exceptionally efficient inverters. Their encapsulated design ensures that they emit only low-intensity stray fields, so that they do not affect other components within the inverter. Compact choke design is another important aspect: SMP's chokes occupy 25 percent less space than conventional designs. Extremely quiet in operation, inverters with these chokes can also be used in residential areas.

SMP chokes can be produced for frequencies of up to 200 kHz and currents of up to 1000 amperes. Their sizes range from 36 mm to 300 mm diameter and their weight from 50 g to 130 kg. Depending on their application, degrees of protections from IP00 to IP66 are available. The chokes can be used in a temperature range up to 180 degrees Celsius. All components are RoHS- and REACH-compliant and the materials used are UL-listed. Beside solar power inverters, SMP's inductive components are used in transformers for wind turbines, in railway engineering and medical engineering as well as in drives and power electronics.

Image:

Sectional view: SMP choke with high-frequency wire winding.

SMP at Intersolar 2012, 13 to 15 June 2012, New Munich Trade Fair Centre, Munich, Germany: Hall A6 Stand 456

Company information:

SMP Sintermetalle Prometheus GmbH & Co KG develops and manufactures inductive components and magnetically soft materials, cores and mouldings. Based in Graben-Neudorf



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near Karlsruhe, Germany, the company was founded in 1982 by Vasilios Gemenetis and today employs 150 people. Research and development have been key aspects of the company's philosophy ever since its foundation. SMP's product range includes low-loss inductive custom components based on in-house-developed powder composites, such as filter, commutating, step-up converter, power recovery and single-conductor chokes. Many of its products are used in the railway industry. The market for inverters for photovoltaic systems that feed solar energy into the electricity grid and for converters for wind turbines is also experiencing strong growth. SMP has become one of the key global suppliers of magnetically soft materials for industrial applications, serving customers throughout the world.

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TPR International would be grateful for a sample copy of the publication with this article.