



Discover Inductit®

Providing unique flexibility
for electronics design

Inductors for the next generation of inverters

Inductit® is a compact, high-performing inductor based on the latest metal powder technology from Höganäs. A unique powder composition makes it possible to manufacture smaller and lighter inductors with drastically lower energy losses.

A neat, compact inductor paves in turn the way for the production of slimmer, more streamlined inverters that can squeeze into smaller spaces and be more efficient. Discover Inductit, and get ready to develop the next generation of high-performing, compact and competitively priced inverters.



Inductit is a compact, high-performing inductor concept with an efficiency-enhancing shape and unique material properties.



Benefits for your system

Flexible solution

Thanks to enhanced efficiency, our inductors are more compact. In combination with the water-sealing feature and the pot core design that prevents magnetic flux leakage, it means you can place them wherever you want inside the inverter. Outside the cabinet is also an option.

High performance at moderate cost

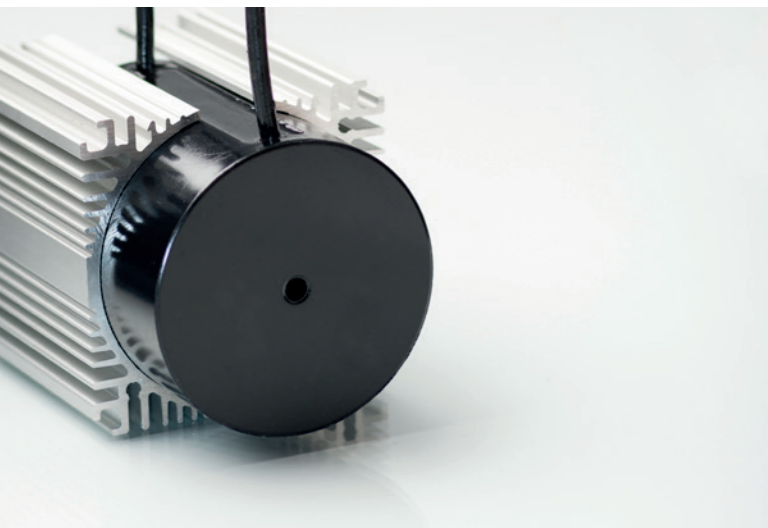
Höganäs' unique iron-based material provides a winning combination of high magnetic saturation and low magnetic losses. With its cylindrical shape and highly compact design, Inductit offers greater resource and energy efficiency than any traditional inductor model. This in turn helps you develop more competitive inverters.

Customised to your needs

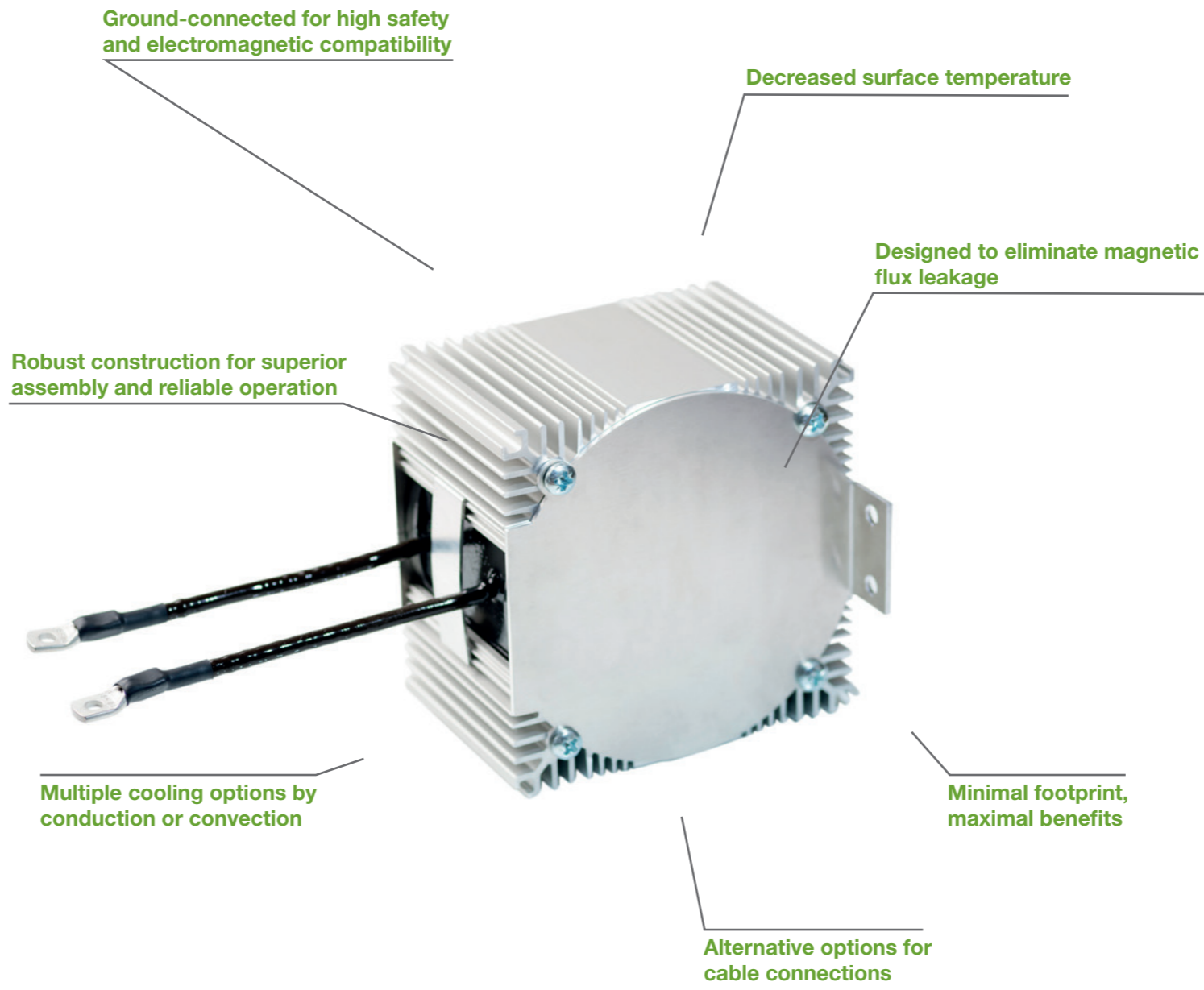
Inductit is available in a wide size range and can be optimised to fit your application requirements. Whether your main concern is inductor size (height or width), efficiency, maximum operating temperature or cost, our inductors can be customised to help you reach your goals.

Coolfix® – for efficient cooling and mounting

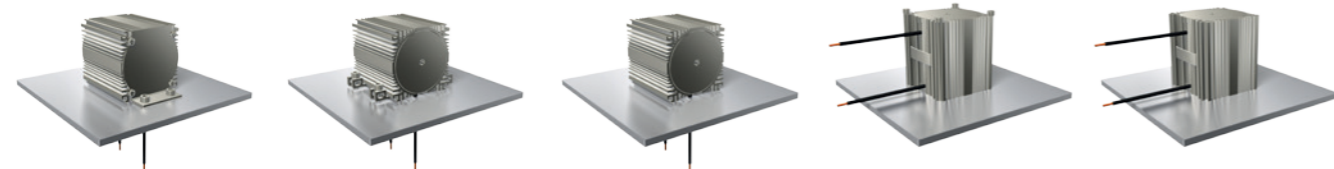
With endless mounting possibilities and several cooling options, Coolfix combined with our inductors provides a superior solution ready to be integrated in your inverter system.



Coolfix adds minimal footprint by utilising the shape of our pot core inductors for efficient mounting and cooling.



Multiple mounting possibilities



Cables down with lid and screw fastening

Cables down with mounting brackets and screw fastening

Cables down with self-threading screw fastening

Cables to the side with long screw fastening

Cables to the side with lid and screw fastening

Why Coolfix?

Placement and mounting flexibility

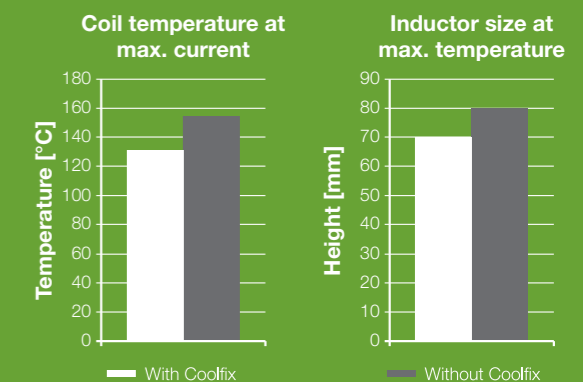
Coolfix opens up a variety of mounting alternatives. Its robust construction and fastening options ensure reliable long-term operation in demanding applications. By also adding flexibility to cable connection, there are countless inductor placement options at your disposal.

Excellent control of EMI/EMC

Coolfix provides excellent control of electromagnetic interference (EMI). It is a great solution to achieve highest possible power density without causing system disturbance. The inclusion of endplates adds more benefits by eliminating magnetic flux leakage and thereby preventing unexpected losses.

Smaller size and/or lower temperature

Having excellent thermal management extends the operating life of inductors and enables a high packing factor. Coolfix has the ability to reduce the temperature of the inductor surface as well as the coil. This makes it possible to increase the power rating or to reduce the inductor size without exceeding critical temperatures.



Test conducted on Ø120 mm, ~5 kg pot core inductors.

Innovation is the foundation

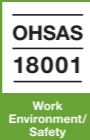
Inductit® has been developed at Höganäs by the cutting edge teams that work with material development and electromagnetic design at our laboratory in Sweden. Backed up by the experience and resources of our worldwide R&D organisation, we look forward to partnering with new customers. By leveraging our combined strengths, we will help this exciting young sector grow apace with the market.



Production and supply

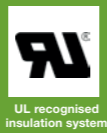
At Höganäs, we have a unique supply chain in place controlling all steps of the production. This enables us to deliver customised inductor solutions where and when you need them.

Thanks to a solid distribution network and established global logistics solutions we are always close to you and offer your business the best prerequisites to grow with the market.



Höganäs – your business partner

Höganäs is the world's leading producer of iron and metal powders. As an established business, you can rely on us to deliver whatever matches your needs. We have been developing soft magnetic composites for over 15 years and we have more than 30 years' experience of cooperation with the inductor core industry. As a major supplier to the automotive industry, we work with all the recognised quality standards.



The focus on high quality products also applies to Höganäs as a long-term partner of the electronics industry. Our inductors are RoHS compliant and the insulation system is UL recognised.

Höganäs – the world-leading manufacturer of metal powders

- Production in 13 plants in 9 countries
- Automotive is the main business area
- 2,500 customers in 75 countries
- 700 granted patents

Fast forward to market launch

1

2

3

4

5

Today's highly competitive industrial and automotive business requires you to make product changes more frequently and ramp up to full production faster. Time to market is absolutely critical. That is why we have devised a swift and simple start-up process to help you get going.

1. **Definition of customer needs**
2. **Inductor design and prototyping**
3. **Prototypes test at your site**
4. **Industrialisation and pre series**
5. **High volume production in cooperation with our partner network**

For rapid product start-up

Find out how Inductit® can lower your production costs and solve your supply problems at the same time improving the performance of your products.

Visit our website and fill in the inductor design request form www.hoganas.com/inductit-form

Power of Powder®

Metal powder technology has the power to open up a world of possibilities. The inherent properties of metal powders provide unique possibilities to tailor solutions to match your requirements. This is what we call Power of Powder, a concept to constantly widen and grow the range of metal powder applications. With its leading position in metal powder technology, Höganäs is perfectly placed to help you explore those possibilities as your application project partner.

Inductit® is a trademark registered by Höganäs, the world's leading manufacturer of metal powders to the automotive industry. During our 200-year history, we have developed close partnerships with many customers – leading to a whole new series of technological breakthroughs and profitable business for all concerned. Our success is based on a willingness to listen and continually adapt to the market's evolving needs. Now, we bring Höganäs' considerable resources and experience to bear in helping green technology customers tackle this century's energy and environmental challenges.



www.hoganas.com/inductit

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