

Powerbox Coreless power solution named finalist at prestigious Elektra Awards

Press Release
October 10, 2017

Powerbox, one of Europe's largest power supply companies and a leading force for four decades in optimizing power solutions for demanding applications, has announced its new coreless technology platform to power medical and industrial equipment operating in very high magnetic field environments such as magnetic resonance imaging or particle accelerators has been selected by the prestigious Elektra Awards committee as finalist.

Medical and industrial applications such as magnetic resonance imaging (MRI) and particle accelerators (PA) generate high magnetic fields in order to induce the RF energy required to activate the hydrogen nuclei in the case of imaging, or to accelerate particles in research and industrial equipment.

Using the latest technology in high-frequency switching topologies and digital control with proprietary firmware to optimize efficiency and voltage regulation, Powerbox's GB350 buck-converter module is the first building block in its category that is able to operate safely when exposed to such high radiation magnetic fields of 2 to 4 Tesla. The GB350 delivers an output power of 350W and when higher power levels are required it can be paralleled using an interleaving mode, thus reducing EMI.

Specifically designed to respond to this demand and to guarantee the highest efficiency and tightly regulated output voltage under any load conditions, Powerbox's GB350 coreless power unit is fully controlled by a digital processor that manages the complete power unit from switching parameters (e.g. dead-time and duty-cycle optimization) to output voltage characterization. To guarantee a high level of flexibility and the possibility to re-profile the power unit characteristics when equipment manufacturers upgrade hardware or implement a software revision, the GB350 micro-controller can be programmed with optimized configuration files downloaded through the digital interface.

"It is apt and fitting that Powerbox has achieved finalist status in the Power System Product of the Year category of the Elektra Awards for a product that is truly innovative, and it's a strong signal that Powerbox's clever combination of the latest technology in digital power coupled with our own advanced coreless energy transfer makes the GB350 a very important component of the Powerbox Custom Power Solution toolbox." said Patrick Le Fèvre, Chief Marketing and Communication Officer at Powerbox. "With more than 3,500 Custom Power projects delivered to market, it is very important to have a strong platform portfolio, reducing time to market in demanding applications such as medical magnetic resonance imaging."

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About the Elektra Awards

The Elektra European Electronics Industry Awards are the high point of the year for the European electronics industry. Established as the best promotional platform to celebrate the achievements of individuals and companies across Europe, they present best practice in key areas including, innovation, sales growth and employee motivation. Our industry will get together to showcase the finest new products, technology innovation and company performances of the year. An independent panel of judges will assess the quality of all entries and the winners will be announced at the Awards Ceremony that will take place on Wednesday 6 December 2017 at the Grosvenor House, Park Lane.

About Powerbox

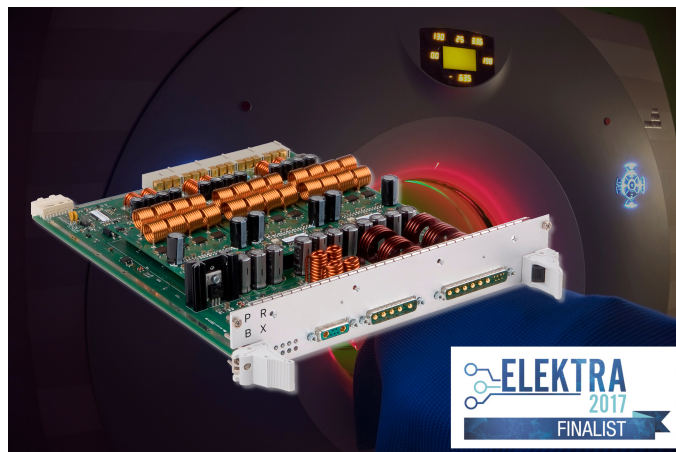
Founded in 1974, with headquarters in Sweden and operations in 15 countries across four continents, Powerbox serves customers all around the globe. The company focuses on four major markets - industrial, medical, transportation/railway and defense - for which it designs and markets premium quality power conversion systems for demanding applications. Powerbox's mission is to use its expertise to increase customers' competitiveness by meeting all of their power needs. Every aspect of the company's business is focused on that goal, from the design of advanced components that go into products, through to high levels of customer service. Powerbox is recognized for technical innovations that reduce energy consumption and its ability to manage full product lifecycles while minimizing environmental impact.

For more information

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Related link :

Coreless Power Solution

<https://www.prbx.com/product/gb350/>

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