

Payton Planar Magnetics Has a Complete Custom Line of Planar Transformer & Inductors for high Power Renewable Energy Applications

High Performance and Low Cost

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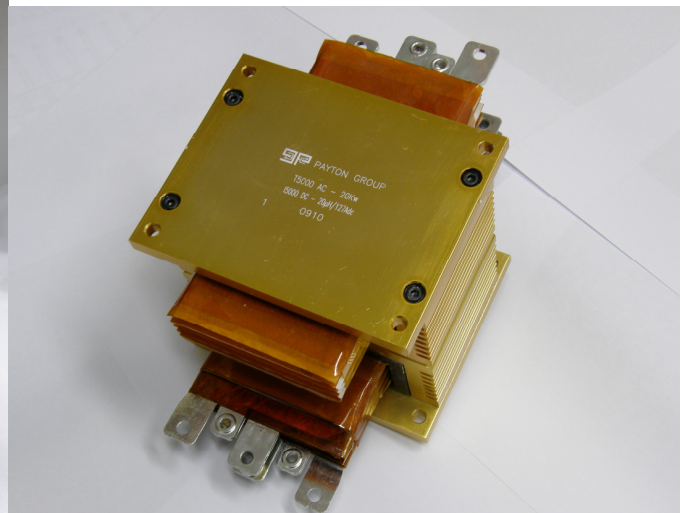
The demand for low profile, high efficiency, conduction cooled and high current input/output converters are driving the need for high performance planar transformers and planar inductors to be used in power converters for High Power Renewable Energy. This application combines the transformer and inductor in one structure.

Technical Data:

Custom designs as this example of a 20Kw application with 60amps peak primary current and 160Vdc at 125 Amps secondary, including a 20uH filter inductor in a 230mm(L)x140mm(W)x60mm(H) thermal package with 0.66°C/W thermal impedance designed specifically for a cool plate and a harsh environment. With 120Watts of dissipation on the transformer and 25Watts on the inductor, this design has a combined efficiency of 99.25%. The switching frequency is 40kHz and the topology is resonant phase shift full bridge.

About Payton Planar Magnetics

Payton America Inc., a Deerfield Beach, Florida company, designs, manufactures and markets Planetics®, a custom line of planar transformers and inductors to Original Equipment Manufacturers and their suppliers of power electronics. Payton's headquarter is in Israel, with manufacturing in Israel and China. For more information, please visit Payton's web site at www.paytongroup.com.



Payton America Inc.
1805 S. Powerline Road, Suite 109, Deerfield Beach FL, 33442
www.paytongroup.com
Phone: +1-954-428-3326, Fax: +1-954-428-3308