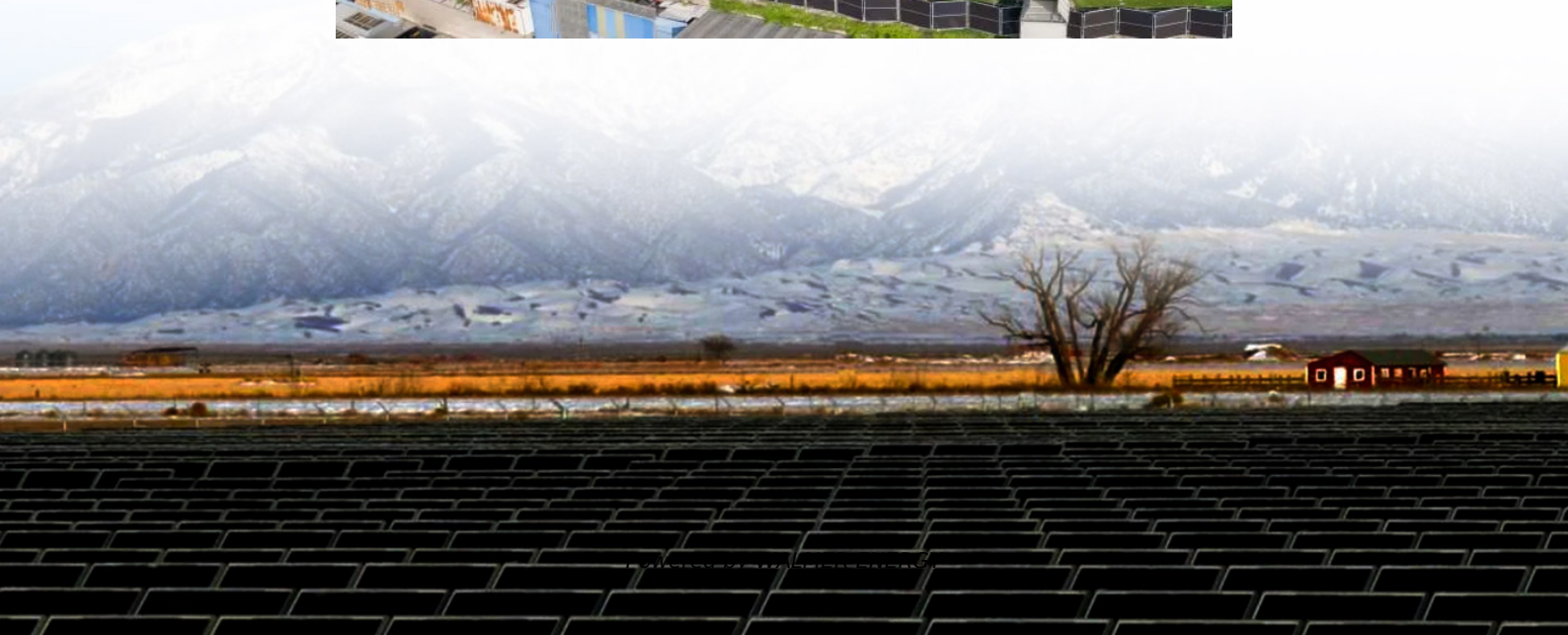


Amorphous machine inverter kit





Overview

Why are amorphous cores used in power inductors?

When used in higher frequency applications, Amorphous cores are more efficient, smaller, and lighter than cores made of silicon steel, ferrite, and powdered iron, by providing high saturation flux density and low magnetization losses. These properties make amorphous highly suitable for power inductors at frequencies ranging from 8 to 100kHz.

What are amorphous cores?

Amorphous cores are made from a very thin Iron based amorphous ribbon, approximately 25 μm thick. Amorphous ribbon is wound into toroidal and oval shapes. Our enhanced ribbon resulting in more core cross-sectional area being occupied by the amorphous ribbon, allowing for ultra-low loss amorphous cores.

What are amorphous metal C-cores?

These amorphous cores wound in a C-Core configuration, which is ideal for AC Reactors and DC Inductors from 10 to 1000+ amperes. The C-Core also allows for single- phase and three-phase inductor designs. Amorphous metal C-Cores allow for operation at higher frequencies at the same flux level. Whereas traditional steel cores need to operate at.

What are the advantages of amorphous cores?

Other advantages of using amorphous cores are: lower copper loss, reduced DCR, smaller size, and improved heat dissipation. Low loss switching devices such as SiC MOSFETs that allow for operating frequencies of 100kHz, are now becoming cost effective for the high-power electronics designs.



Amorphous machine inverter kit

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