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Improved efficiency of feed-in inverters with EMI chokes made of nanocrystalline material NANOPERM[®]

Measures towards increased efficiency of feed-in inverters of solar or wind energy installations become more and more a focus of various investigations driven by the relevant manufacturers. Every tenth percentage is desired and welcome.

Exactly that trend simulates more and more the replacement of standard components by optimised solutions with respect to a reduced power loss. That is valid in particular for inductive components such as EMI filter chokes.

The implementation of highly permeable nanocrystalline tape wound cores as a replacement of widely used ferrite cores results in a significantly smaller build volume which leads to much reduced copper losses, typically 50% lower compared to the state-of-the-art.

A simple calculation for a typical 3~ 25A CMC (1,5mH) shows the surprising result, that the extra cost for the advanced version of choke pays back within only about one year – due to the increased feed-in compensation achieved by the reduced copper loss.

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