

Why not tuning your Solar Inverter with NANOPERM®?

Current compensated filter chokes shrink significantly when nanocrystalline cores are being used. As a consequence, the wasteful power loss in the copper windings is significantly reduced and at the same time the statutory feed-in compensation increases accordingly.



Example calculation:

	NANOPERM-choke		Ferrite-choke
Price per pc.	7,50 Euro	typical values	4,00 Euro
I_N	25 A	nominal current	25 A
L_N	1600 nH	Inductance	1300 nH
R_{Cu}	0,003 Ohm	R_{Cu} of one winding	0,0075 Ohm
$P_{L_{tot}}$	5,63 W	total power loss	14,06 W
per day	0,14 kWh	'wasted' energy	0,34 kWh
per day in 2009	0,06 Euro	lost compensation	0,15 Euro
Scenario	33 % 8 hrs/d	duty cycle	33 % 8 hrs/d
Feed-in compensation (Germany)	advantage with nano-choke per annum		
0,4301 Euro/kWh 2009	10,49 €		
0,3957 Euro/kWh 2010	9,65 €		
0,3601 Euro/kWh 2011	8,78 €		
0,3277 Euro/kWh 2012	7,99 €		
0,2982 Euro/kWh 2013	7,27 €		
	sum	44,19 € after 5 years	
		3,50 € choke price difference	
	grand total	40,69 € after 5 years	

Conclusion: your investment in the advanced filter choke pays back in a few months only!

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