



Single and three phase inductors specifically designed for wind converters:

- DFM with doubly-fed generator.
- Full Converter for low voltage LV.
- Full Converter for medium voltage MV.

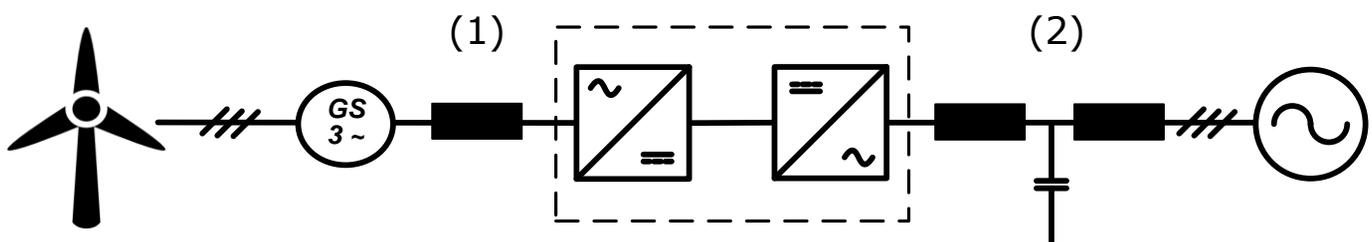
Applications and reactor types:

Reactors dV/dt & LC filter at generator side (1):
Protect the generator windings to limit voltage spikes caused by the switching converter. Reduce fault currents in rolling bearings of the turbine extending its useful life.

Reactors for LC & LCL filter at network side (2):
Filter voltage harmonics caused by the PWM modulation of the converter, adjusting the output voltage to a sine wave to make the connection to network.

Technical characteristics

Power generators	0,65 ÷ 10 MW
Nominal voltage LV	400 ÷ 750 V
Nominal voltage MV	3 ÷ 10 kV
Nominal current (A)	100 ÷ 4000 Arms
Nominal inductance (L)	1 uH ÷ 1000 mH
Nominal frequency	1 ÷ 60 Hz
Switching frequency	1 ÷ 10 kHz
Insulation class	H (180 °C)
Ambient temperature	-25°C ÷ 70°C
Installation altitude	0 ÷ 4000 m
Relative humidity	up to 95%
Protection degree	IP-00
Cooling	Natural / Forced
Impregnation	VPI & drying oven
C4M treatment	Anticorrosion and long durability
Useful life	30 years
International standard	IEC/UNE-EN 60076-6
UL standard	File E354573 UL 5085-1 UL 5086-2
UL EIS	File E466028





Single and three phase inductors specifically designed for photovoltaic inverters:

- Compact inverters
- Modular inverters
- Inverters with or without galvanic insulation

Applications and reactor types:

DC common mode Reactors at panel side (1):

Attenuate the harmonic components of common mode between photovoltaic panels and the inverter input.

Reactors for LCL filter at network side (2):

Filter voltage harmonics caused by the PWM modulation of the converter, adjusting the output voltage to a sine wave to make the connection to network.

Technical characteristics

Power inverters	10 kW ÷ 2,5 MW
Nominal voltage	230 ÷ 750 V
Nominal current (A)	10 ÷ 4000 Arms
Nominal inductance (L)	1 uH ÷ 1000 mH
Nominal frequency	50/60 Hz
Switching frequency	1 ÷ 10 kHz
Insulation class	H (180 °C)
Ambient temperature	-25°C ÷ 70°C
Installation altitude	0 ÷ 2000 m
Relative humidity	up to 95%
Protection degree	IP-00
Cooling	Natural / Forced
Impregnation	VPI & drying oven
C4M treatment	Anticorrosion and long durability
Useful life	30 years
International standard	IEC/UNE-EN 60076-6
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