Indar

WIND ENERGY Product Range



Indar comprises the range of general product of the wind power industry in its more usual speed and power range. However, the core of the series relies on its adaptation to the customer's specific requirements and the integration into the complete solution with the converter. With proven experience in these product ranges, the main design standards are reliability, performance optimization and cost-effectiveness. The following table shows the main design features of the DFIG, PMG and IG series.

	DFIG	PMG	IG
Main features	Doubly Fed Induction Generator	Permanent Magnet Generator	Squirrel Cage Asynchronous Generator
Rated power range Electrical layout Voltage Gen/Network frequency Cooling Insulation Temperature range Construction Protection degree Corrosive protection	Up to 9 MW Partial converter 690 V - 12000 V 50 Hz - 60 Hz Air-air / Air-water F-H -30°C / +50°C (-40°C optional) Horizontal (IM1001/IM1101) IP54 / IP55 (slip-rings IP23 / IP54) C3H - C4H - C5M	Up to 9 MW Full converter 690 V - 6600 V Variable / 50 Hz - 60 Hz Air-air / Air-water / Water jacket F-H -30°C / +50°C (-40°C optional) Horizontal (IM1001/IM1101/IM3001) IP54 / IP55 C3H - C4H - C5M	Up to 9 MW Full converter / Direct-on-Line (DoL) 690 V - 6600 V / <12000 V for DoL Variable / 50 Hz - 60 Hz Air-air / Air-water / Water jacket F-H -30°C / +50°C (-40°C optional) Horizontal (IM1001/IM1101) IP54 / IP55 C3H - C4H - C5M

Applications:

- Onshore
- Offshore



Our machines are designed, manufactured and tested according to the criteria and standards of the International Electrotechnical Commision (IEC). Additionaly, we can design and manufacture in accordance with other standards.





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Your driving force

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