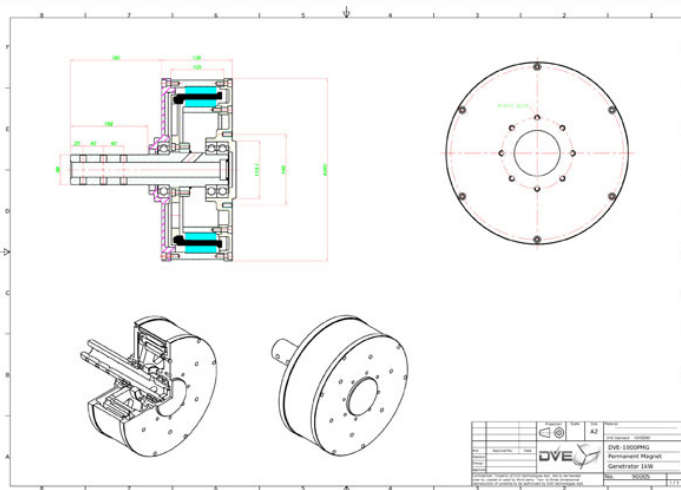




Permanent Magnet Generator

With the DVE Technologies range of PMG's for small wind turbines based on permanent magnet technology, you will experience low start up speed due to low cogging. The PMG can be operated with a wide range of output power, and with our design we can offer an efficiency in excess of 95%.

The permanent magnet generator is synchronous, where the rotor windings have been replaced with permanent magnets. This eliminates the excitation losses in the rotor, which otherwise typically represents 20 to 30 percent of the total generator losses. This leads to considerable higher part load efficiency for the PMG compared to asynchronous generators.

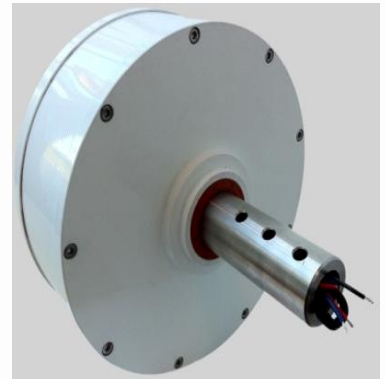


The high efficiency and multi poled layout of the PMG leads to better utilization of the wind energy and enables gearless power transmission.

The standard DVE Technologies range of PMG's includes both inner and outer rotor designs offering a variety of possibilities of mechanical size, RPM, power rating etc.



PMGI inner rotor



PMGO outer rotor

Features

- Low start-up torque
- No cogging due the ironless stator
- Gearless, direct drive, low RPM generator
- Very high efficiency
- Excellent heat dissipation due to the Aluminum alloy outer frame and special internal structure
- High overload capability
- Robust mechanical design
- Built in thermal over-temperatur sensor (*optional*)

Main specifications

- Stainless steel shaft construction
- Outer frame material high standard aluminum alloy with TF heat treatment
- High quality SKF bearings
- Outer frame in anodized or powder coated finish
- Protection class IP65
- Customizable voltage and RPM ratings



Intelligent wind turbine control

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