

Power converter using intelligent control system: The power converter is a key component of any wind turbine system. It is responsible for converting the variable-frequency output of the generator into a fixed-frequency output that can be used by the grid. For example, they can be used to regulate the DC link voltage, which helps to ensure that the generator operates at its most efficient speed. They can also be used to control the stator reactive power, which helps to improve the power factor of the wind turbine system. This can lead to reduced losses and increased power output. Intelligent control systems can be used to improve the performance of the power converter in a number of ways.