



PowerModule™ PM3000W

Configurable Power Converter for Wind Energy

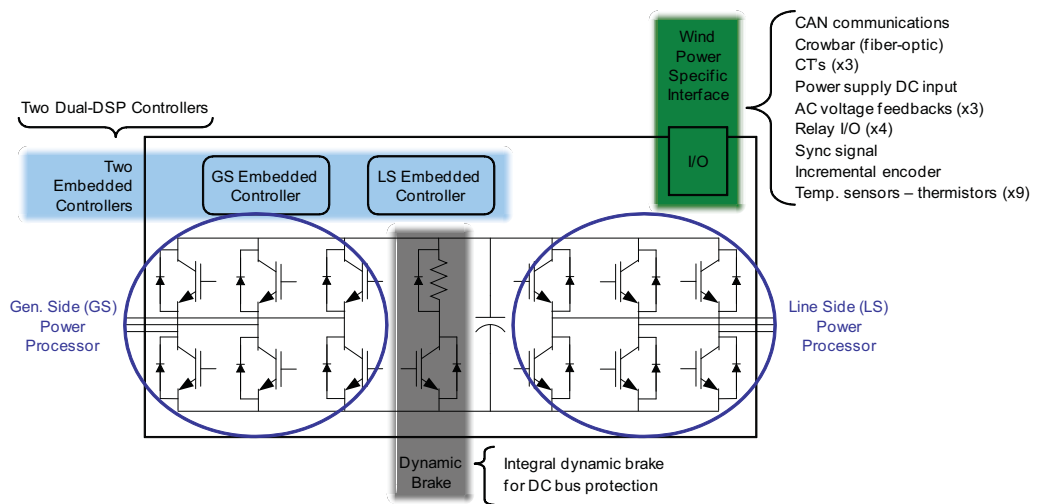


Developed Specifically for Wind Power Applications

- Wind power specific controls and interfaces for universal generator connectivity
- Programmable and modular to reduce time to market
- Low voltage ride through (LVRT) to meet grid interconnection requirements
- Industry standard D-VAR® technology supports reactive compensation

Designed to Meet Your Wind Energy Converter Needs

As wind energy demand has increased throughout the world, the need to rapidly create wind energy power conversion systems has increased dramatically. The PowerModule™ PM3000W from American Superconductor (AMSC) is a fully programmable, flexible and modular power converter platform that you can utilize across multiple wind energy applications —reducing time to market.



PowerModule™ PM3000W Power Converter

Introducing the PowerModule PM3000W power converter for wind energy converters

AMSC's PowerModule PM3000W is designed specifically to meet your power conversion needs for your wind turbine converter system. The PM3000W utilizes state-of-the-art ruggedized (thermally and mechanically enhanced) IGBTs in a high power density (130 W/in³, 7.9 W/cm³), liquid cooled, double conversion architecture.

An intelligent and highly integrated power converter

An intelligent and highly integrated power converter, the PM3000W features wind power specific interface and application modules, two dual-DSP embedded controllers and a common laminated DC bus with dynamic control —making the PM3000W converter the best solution for wind power applications.

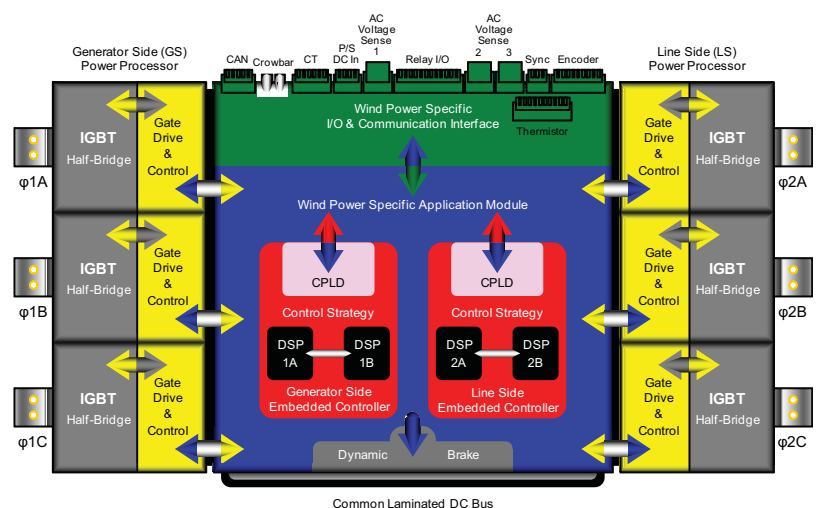


Easy to Use

PM3000W converters are designed for rapid development of, and integration into, wind power systems. The PM3000W is a fully programmable, flexible and modular power converter that can be applied to various wind turbine makes and models —reducing time to market.

Advanced grid compatibility control

Advanced grid compatibility control, mono-frame construction with slide mounts and wind power specific interface and application modules offer unmatched versatility —streamlining manufacturing and reducing integration time.

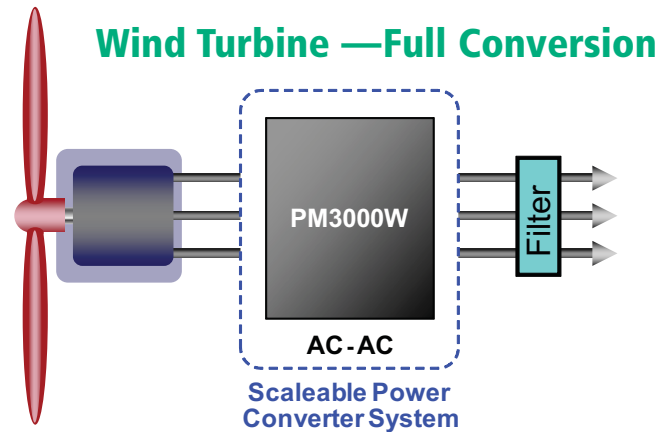
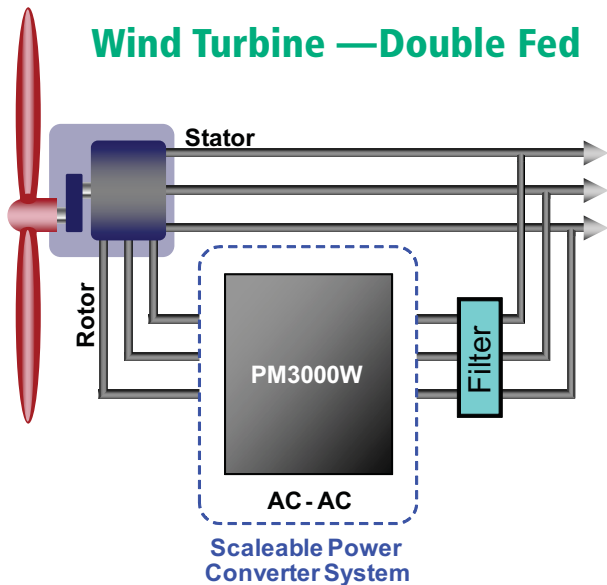


Multiple PM3000W converters can be configured in parallel — enabling higher power-rated converters. This example is configured to support AC-AC power conversion.

Designed Specifically for the Needs of the Wind Energy Converter Market

Worldwide Wind Applications

The PM3000W can be used with asynchronous, synchronous, induction, and permanent magnet generators, 50 Hz /60 Hz , and supports low voltage ride through (LVRT). This modular power converter supports various wind energy systems with power ratings up to 6 MW. AMSC's proprietary D-VAR® technology for reactive compensation can also be incorporated inside the wind turbine.



AMSC's proprietary D-VAR® technology can be integrated into the turbine

Superior Support and Technology

AMSC's wind power systems mechanical and electrical engineers offer a diverse skill set to help customers find solutions to a variety of needs. They are highly experienced in wind energy systems and power quality and will work closely with you to develop optimized, cost-effective solutions to improve your wind energy projects. AMSC's PowerModule™ and D-VAR® technologies are proving to be the solutions of choice for wind energy systems around the globe.



AMSC —Creating The Standard for Wind Power Converter Technology

This innovative power conversion technology was developed specifically for wind energy applications by American Superconductor (AMSC), a leader in grid connected energy systems and wind energy solutions based on proprietary technologies, in collaboration with our subsidiary AMSC Windtec, a global leader in wind energy engineering and technology transfer for customers who self-manufacture wind turbines.

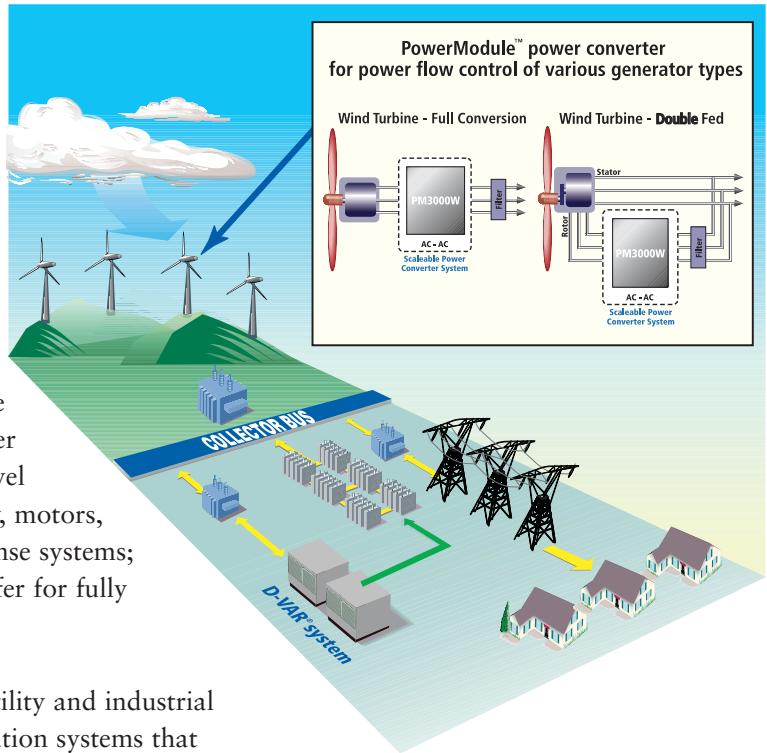


About American Superconductor

American Superconductor Corporation serves the utility, industrial and wind power markets. The company's products, services and system-level solutions enable cleaner, more efficient and more reliable generation, delivery and use of electric power.

AMSC is a leading energy technologies company offering an array of solutions based on proprietary technologies: programmable power electronic converters (PowerModule™ converters); high temperature superconductor wire to enable a new generation of compact, high-power electrical products including power cables, grid-level surge protectors, Secure Super Grids™ technology, motors, generators, and advanced transportation and defense systems; and AMSC Windtec designs and technology transfer for fully developed wind energy systems.

With offices around the world, AMSC provides utility and industrial customers worldwide with D-VAR® voltage regulation systems that dramatically enhance power grid capacity, reliability and security, as well as industrial productivity. The company's technologies are protected by a broad and deep intellectual property portfolio consisting of hundreds of patents and licenses worldwide.



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