

Overview



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Power electronics equipment as presented by inverters that generate variable amplitude variable frequency AC voltages, is contributing to energy savings, increased performance, and enhanced functionality in all kinds of areas such as household electric appliances, industry, transportation, and electric power systems. Furthermore, owing to global environmental problems such as global warming and environmental pollution as well as the increasingly critical energy situation across the world in recent years, expectations are rising for power electronics equipment that makes it possible to use clean power and produces impressive energy savings.

As a producer of power electronics products ranging from power semiconductor devices to power converters and systems for a wide variety of applications, Mitsubishi Electric Corporation has been pioneering the development of power electronics technology.

Major market needs for power electronics equipment include downsizing, improved efficiency, enhanced performance, increased reliability and environmental friendliness. This feature edition introduces the latest power electronics technologies that Mitsubishi Electric Corporation has developed over the years in line with market needs. These technologies encompass power semiconductor devices, power conversion, motor control, and integration.