

OUR PURPOSE

Moving society forward with power electronics and creativity

Since our founding, we have been engaged in transforming and controlling electricity. This will remain unchanged. Continuing to be an entity with one-of-a-kind technologies and services that moves society forward to a bright future — this is our purpose and our mission.

Power electronics

This is our role in society and our business domain, which will remain unchanged. We are always engaged in power electronics.



Creativity

While we are an engineering company, it is not just our engineers but all of our employees that act in accordance with our purpose. All employees act creatively with a commitment to one-of-a-kind technologies and services.



Moving society forward

As a manufacturer of power supplies and power semiconductors, we will be a driving force moving society in a better direction. This is our purpose and our mission.

SANSHA ELECTRIC MFG. CO., LTD.

Address | 3-1-56, Nishiawaji, Higashiyodogawa-ku, Osaka
TEL | +81-6-6321-0321

<https://www.sansha.co.jp/eng/>



MOVING SOCIETY FORWARD WITH POWER ELECTRONICS AND CREATIVITY.



SanRex





Global Power Solution Partner

Continuing to be a partner that listens to customers and meets their expectations in the provision of solutions.

Sansha Electric Group has developed power conversion technologies cultivated since our foundation, and has grown through technical innovation and global expansion. We will continue to take steps forward to build a sustainable future, including improved energy efficiency, with our solid technical capabilities and flexible proposals.

Supporting the future society

Starting with the development of rectifiers for movie projectors in 1933, we have continued to innovate with the changing times, including power semiconductors and power conditioners for renewable energy, contributing to the development of society as a pioneer in power conversion technology for over 90 years.

Utilizing the technical capabilities and global network we have cultivated, we are accelerating the provision of solutions to continue contributing to solving world social issues in the future.

1933~

As a Pioneer of Power Conversion Technology

Developed a rectifier to stabilize screen projection in movie theaters, contributing to the prosperity of the movie industry. In other products, the company has earned a reputation for improved quality and competitive prices. Recognizing future demand growth, we entered the semiconductor industry in 1963. By developing products for a wide range of industries, we will build a solid technological foundation, advancing with global expansion and business growth.

1971~

Global Expansion and Business Expansion

Accelerating global business expansion and establishing a foothold in America, Asia, and Europe to enhance the international order reception system. By aiming to improve power conversion efficiency and quality, we have achieved the high-frequency switching of arc welders, which was previously considered challenging, thus contributing to the advancement of welding technology. Furthermore, we actively promote product development by leveraging advanced semiconductor technology, focusing on both technical innovation and social contribution.

2011~

Technical Innovation and Social Contribution

Expanding into the field of renewable and new energy, we continue technical innovation to develop a variety of products. Furthermore, by participating in the virtual power plant (VPP) construction demonstration project promoted by the Ministry of Economy, Trade and Industry, we are advancing efforts to utilize solar power generation, storage batteries, and EVs as virtual power plants by integrating and controlling them with digital technology.

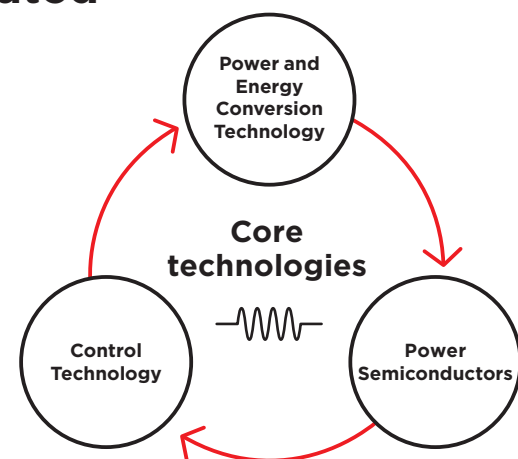
Creating new possibilities by freely creating the shape of electricity.

Currently, Sansha Electric Group is applying technologies in fields such as the environment and new energy towards a decarbonized society, providing products with high reliability across a wide range of fields.

Unique Point

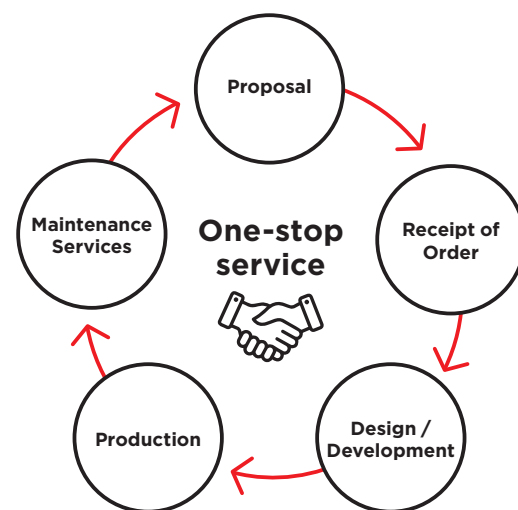
Competitive Advantages Created by the Technology Cycle

By engaging in both power supply equipment and power semiconductors, which are the main devices, we are creating technological synergies. Leveraging this strength, we have developed high-performance power supply devices that maximize the characteristics of semiconductors. Furthermore, power conversion and control technologies are optimized in an integrated manner to promote development, design, and production. These synergistic effects have realized high efficiency and high reliability, supporting our competitive advantage in the market.

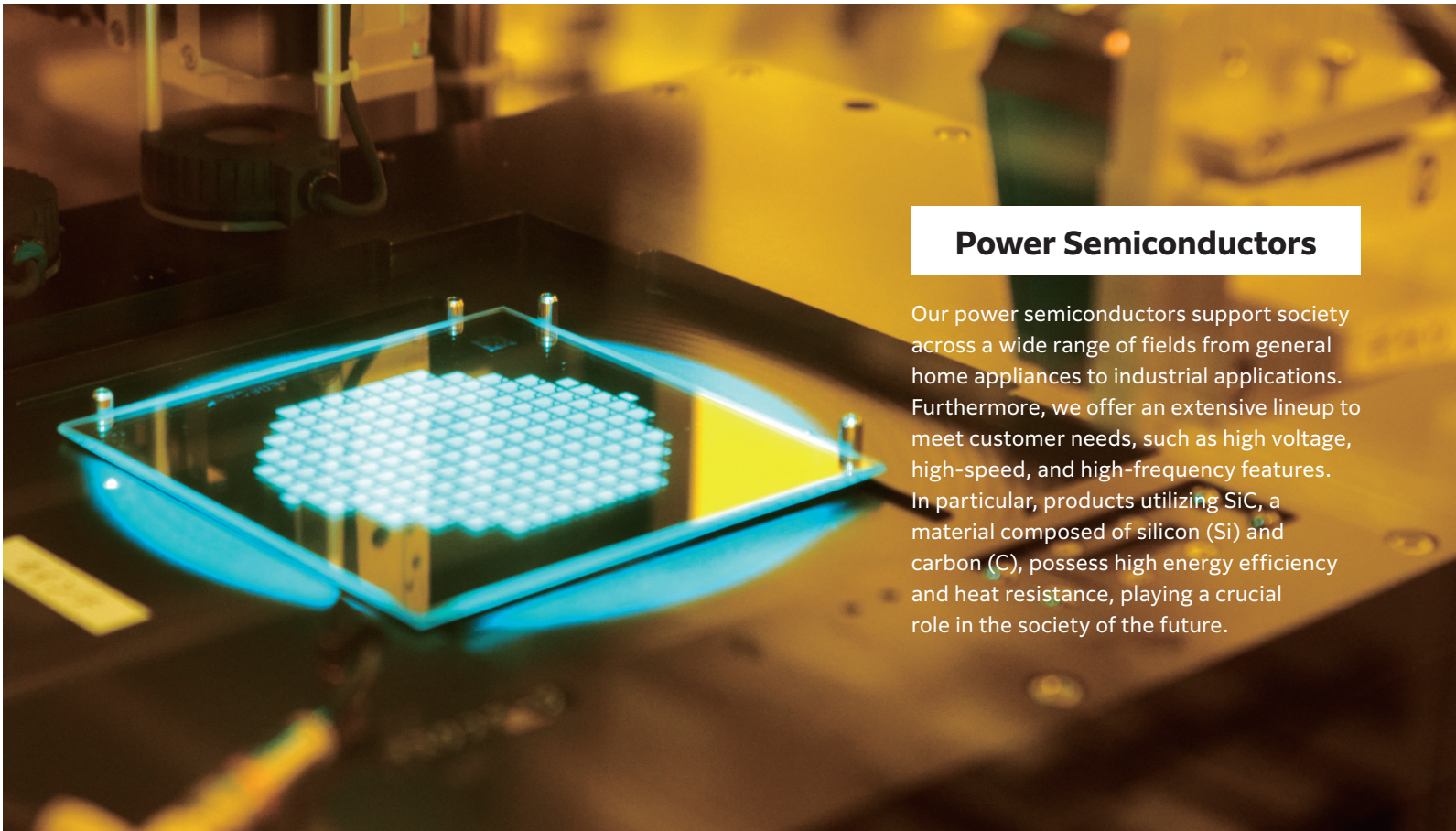


Integrated Production and One-Stop Services

Our company conducts an integrated production process from wafer processing and package assembly of power semiconductors to the development, design, and production of printed circuit boards for power supplies. This process allows us to strengthen quality, enhance technical capabilities, and achieve cost reduction, thereby providing high value-added products. Furthermore, leveraging our integrated production system, we can flexibly offer specially ordered products tailored to meet customer needs. Additionally, we have established a comprehensive service system that offers one-stop solutions from product installation to operation, maintenance, and upgrades, meeting diverse customer needs.

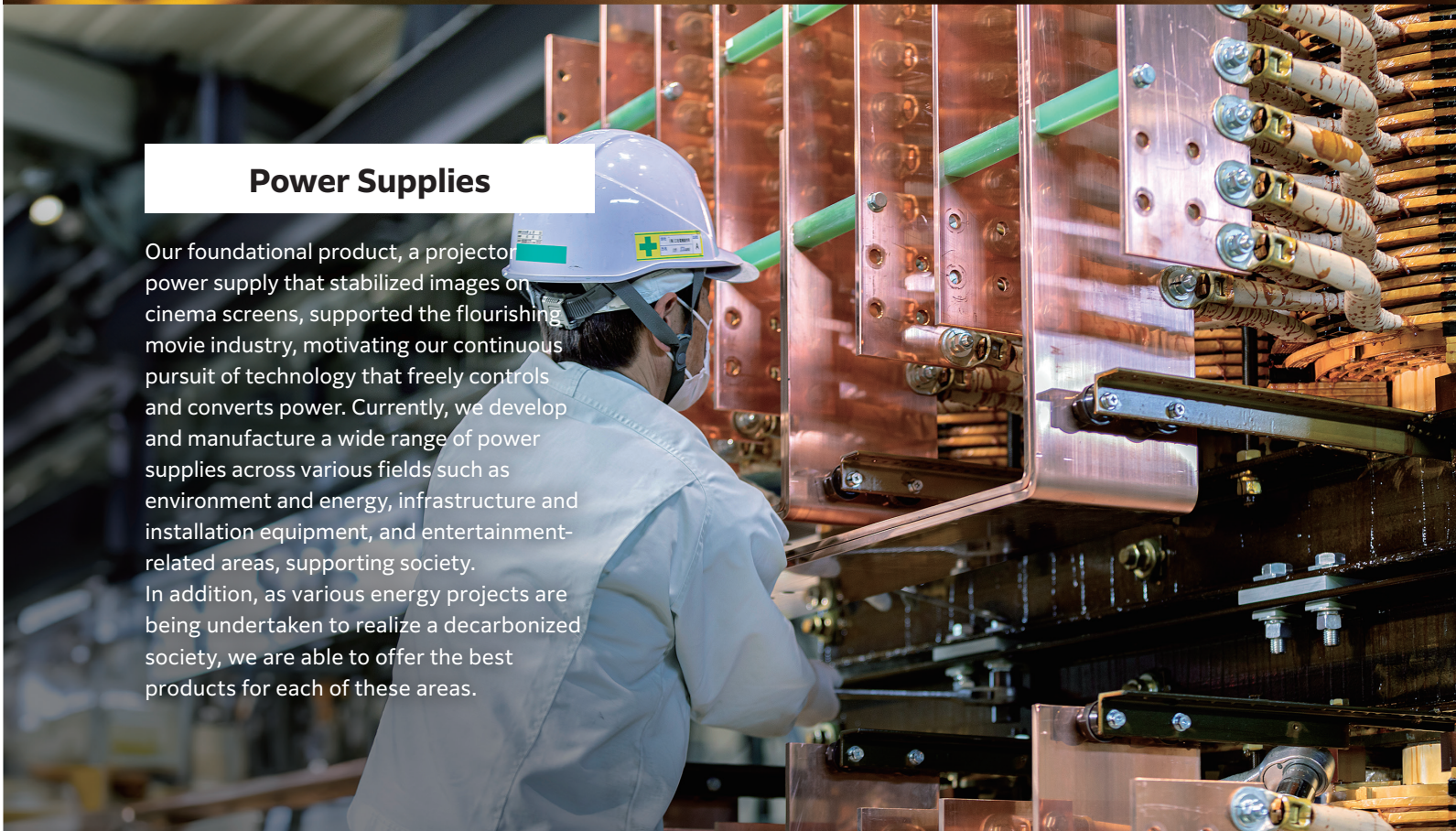


Our Business



Power Semiconductors

Our power semiconductors support society across a wide range of fields from general home appliances to industrial applications. Furthermore, we offer an extensive lineup to meet customer needs, such as high voltage, high-speed, and high-frequency features. In particular, products utilizing SiC, a material composed of silicon (Si) and carbon (C), possess high energy efficiency and heat resistance, playing a crucial role in the society of the future.





Power Supplies

Our foundational product, a projector power supply that stabilized images on cinema screens, supported the flourishing movie industry, motivating our continuous pursuit of technology that freely controls and converts power. Currently, we develop and manufacture a wide range of power supplies across various fields such as environment and energy, infrastructure and installation equipment, and entertainment-related areas, supporting society. In addition, as various energy projects are being undertaken to realize a decarbonized society, we are able to offer the best products for each of these areas.

Sansha Electric Mfg. products that support society.

“Electricity” is indispensable to society.
Our products, which support electricity, are actively utilized throughout the cities where we live.
By making full use of power conversion technology and responding flexibly to various needs, we have gained the trust of many customers, and have accumulated achievements in a wide range of fields from general home electric appliances to industrial equipment and important facilities such as government offices.

-  Power Semiconductor Business
-  Power Supply Business



General Industry

Automobiles and Smartphones



Power Supplies for Surface Treatment

Used in plating to improve wear resistance and oxidation resistance of surfaces such as metals



Factory Equipment such as Material Processing



SiC MOSFET Modules

Generating high-frequency electric power with high efficiency during thermal processing, contributing to the reduction of power loss and the improvement of processing quality



Electric Power Regulator

Used for temperature control in electric furnaces such as glass processing plants



Research Facilities



Power Supplies for Evaluation

Used to test and evaluate the characteristics of various batteries and motors



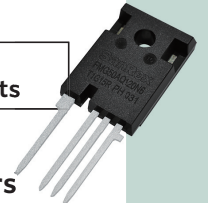
Lifestyles and Entertainment

Home Electric Appliances and Electric Bidet Toilet Seats



Discrete Semiconductors

Used to control heaters and motors



Movie Theaters, Halls and Stadiums



Power Supplies for Dimmers / Projectors

Power supplies for dimmers enable continuous adjustment of lighting brightness
Power supply for projectors enhances screen projection vividly



Infrastructure

Expressways and Electronic Toll Collection (ETC)/Stations



Uninterruptible Power Supplies (UPS) and Control Power Supplies

Supply power for a certain period during a power failure, ensuring the operation of equipment and protection of data



Electric Rolling Stock



Diode Modules

Used in auxiliary power supplies that provide stable voltage and frequency conditioning in trains



Energy & the Environment

Hydrogen



Power Supplies for Water Electrolysis

Supplies a stable current to the water electrolysis system to electrolyze water to produce hydrogen



Storage Batteries



Power Conditioners for Fuel Cells and for Storage Batteries

Converting electric energy stored in fuel cells and storage batteries and interconnecting with commercial power

Solar (PV) Power Generation



Power Conditioners

DC power obtained by solar power generation is converted to AC and interconnected with commercial power.

