

Products of the Sansha Electric MFG That Support Society

The most significant social responsibility that the Sansha Electric Manufacturing Group has as a manufacturer is to conduct manufacturing that is valuable to society. We support society by providing power semiconductors for many different power supplies and industrial power supplies for a wide range of industries, from high to low power, in Japan and overseas under the concept of the integration of technologies for power semiconductors and for power supplies.

Power semiconductor business



Power modules



Power discrete semiconductors

Power supply business



Power supplies for copper foil manufacturing



Uninterruptible power supplies

Energy & the environment

Solar (PV) power generation

Power conditioners
Converting the direct current electric energy obtained from sunlight into alternating current to connect to the commercial power network

Diode modules for preventing backflow
Preventing the backflow of electric current from a storage battery or other device and the subsequent damage of solar panels

New energy

Power conditioners for fuel cells and for storage batteries
Converting electric energy stored in fuel cells and storage batteries and connecting to the commercial power network

Hydrogen

Power supplies for water electrolysis
Supplying a stable electric current to the water electrolysis system necessary for the production of hydrogen through the electrolysis of water

Power plants

Power supplies for seawater electrolysis
Large current power supplies that generate sodium hypochlorite through the electrolysis of seawater to prevent marine life from depositing on the plant's water inlet

Fuel cells and storage batteries

Power supplies for testing and evaluation and charge-discharge products
High performance power supplies indispensable in the testing and evaluation of a range of batteries and automotive equipment

Lithium ion batteries

Power supplies for copper foil
Performing an electrolytic process with a stable electric current to generate copper foil to be used as an anode material for lithium-ion batteries

Waste disposal plants and contaminated substance disposal plants

Power supplies for plasma arc generation
Power supplies for plasma arc generators that quickly increase the temperature of waste to be treated to a high temperature to suppress the generation of dioxins generate

General industries

Manufacturing robots and welders

Thyristor/Diode
Converting alternate current to direct current to protect electric circuits from overvoltage. Power supplies for welding and cutting Power supplies for welding and cutting steel sheets

Thyristor/Diode
Converting alternate current to direct

Inverters for industrial use and commercial air conditioners

Diode modules
Stabilizing and controlling motors

Induction heating/high-frequency power supplies

SiC MOSFET modules
Generating high-frequency power with high efficiency

Automobiles

Power supplies for surface treatment
Used in plating for increasing the abrasion resistance and oxidation resistance of metal and other surfaces

Electric power regulators
Used for adjusting the temperature of electric furnaces for melting metals and glass

Infrastructure

Expressways and electronic toll collection (ETC)/Stations

Uninterruptible power supplies (UPS) and control power supplies
Maintaining the supply of electric power for a certain period of time during a power failure to protect the operation of equipment and data

Electric rolling stock

Diode modules
Supplementary power supplies that supply stable voltage and frequency to lighting, air conditioners and other equipment in rolling stock

Mobile phone base stations

Power supplies for aluminium foil processing
Power supplies for electrochemical etching, which is the process of expanding the surface area of the aluminum foil used in electrolytic capacitors that are necessary for the power supplies for base stations

Water supply and sewage facilities

Power supplies for ozone generation
Generating ozone to decompose organic substances in water by applying a high voltage to induce an electric discharge

Lifestyles, medical care and entertainment

Movie theaters

Power Supply for Light Sources
Power supplies for projecting images clearly onto a screen

Medical equipment/ATMs

Small power supplies
Power supplies providing stabilized electric power

TV studios, halls and stadiums

Power supplies for dimmers
Power supplies that enable the continuous dimming of lighting

Home electric appliances and electric bidet toilet seats

Discrete semiconductors
Controlling heaters and motors

Elevators

Diode modules
Stabilizing and controlling motors

Information & communication

Smartphones

Power supplies for surface treatment
Used for plating, which is a process of placing a thin metal film over the surfaces of electronic components, printed circuit boards and other parts used in computers and smartphones