

# SANYO DENKI

Company Profile 2016



We at SANYO DENKI Group Companies, aim to help all people achieve happiness, and work with people to make their dreams come true.

To carry out the corporate philosophy, we do the following:

### For Environment...

For society and the natural environment we will help preserve the global environment and contribute to the prosperity of mankind through our corporate activities.

### For Customers...

For customers and users we will create new values through technology, products and services.

### For Suppliers...

For suppliers and vendors we will strive for integrated technical development and harmonious mutual prosperity through parts purchase, production contracting and joint development.



## For Investors...

For investors and financial institutions we will increase our investment worth and credit through sound management policy and good access to information.

## For Competitors...

For competitors and the industry we will strive to build industrial and technical development through technical alliances and competition.

## For Employees...

For all of our employees we will help individuals to achieve self-fulfillment through their work and the company.



Under the corporate philosophy to “Aim to help all people achieve happiness”, SANYO DENKI is committed to develop new technologies and products on the basis of three technical concepts. Using technology for the happiness of people is our policy.



From the wealth of knowledge and experience of developing new technologies from our foundation, SANYO DENKI provides products and technologies to six business areas.



### Medical

Business area manufacturing medical and nursing related equipment to contribute to human health.



### Information

A wide business area ranging from computers and communications equipment, including peripheral hardware, to information industries and communication services.



### Industry

Business areas related to the automation of industrial machinery in general, including machine tools and robots.



### Environment

Business area promoting environmental protection and manufacturing equipment to preserve the global environment.



### Home

Business area manufacturing equipment for home-automation and better living.



### Energy

Business areas aiming to produce and convert electric power, save energy, and use new energy sources.

**San Ace**  
COOLING SYSTEMS

**SANUPS**  
POWER SYSTEMS

**SANMOTION**  
SERVO SYSTEMS

# San Ace

COOLING SYSTEMS

## New Products / Recommended Products



### Wide Temperature Range Fan

San Ace T

This fan can be used in a temperature range of -40°C to +85°C. This wide temperature range makes it suitable for many applications, from low temperature refrigerator/freezer related devices, to high temperature lighting, as well as ICT equipment, PV inverters, and rapid EV charging stations.



### Reversible Flow Fan

San Ace 136RF

This fan can blow air in both directions. This product helps to reduce equipment cost as air direction can be alternated with only one fan. Suitable for applications such as household ventilation, beverage vending machines, food display cabinets, LED lighting, and printers.



### ACDC Fan

San Ace 120AD

This fan internally converts AC power to DC power. It provides the superior performance of a DC fan with AC power input. A 92 mm square type has been newly added to the lineup. Suitable for the cooling of general industrial machinery, FA related devices, PV inverters, etc.

## Product Lineup



### DC Cooling Fan

These are DC cooling fans with high reliability and high performance. In addition to standard DC cooling fans, the lineup includes products with special features, such as Counter Rotating Fans, Centrifugal Fans, Blowers, and Low Power Consumption Fans, allowing customers to select the optimal fan for their application. Suitable for applications such as cooling of servers, storage, and ICT equipment.

- DC Cooling Fan
- Low Power Consumption Fan
- Silent Fan
- Counter Rotating Fan
- Centrifugal Fan
- Blower



### Endurance Fans

Endurance fans are ruggedized DC cooling fans. In addition to Wide Temperature Range Fans which can be used in a temperature range of -40°C to +85°C, there are Splash Proof Fans which can be used in environments exposed to water, Long Life Fans, which can be operated continuously for 20 years or more, Oil Proof Fans, which can be used in environments

with oil mist, and other fans which maintain stable operation in severe environments.

- Wide Temperature Range Fan
- Splash Proof Fan
- Splash Proof Centrifugal Fan
- Oil Proof Fan
- Long Life Fan
- Long Life Counter Rotating Fan

## Product Application Examples

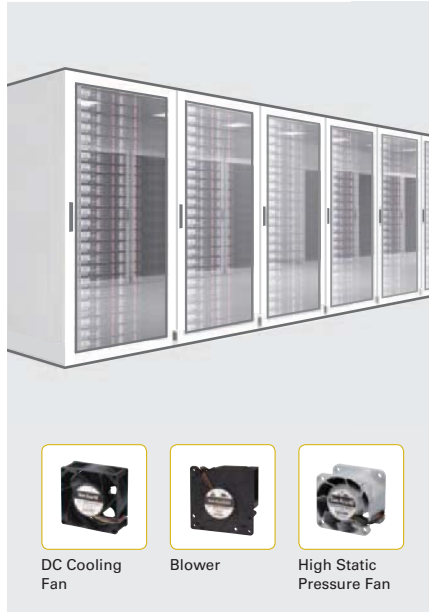


### Centrifugal Fan

San Ace C225

A fan which blows air in a centrifugal direction. Compared with other fans, San Ace C225 has superior airflow and static pressure. The angle at which air flows is different between intake and discharge, which makes it possible to effectively use space within equipment. Suitable for ICT equipment, heat exchangers, large-scale energy storage systems, PV inverters, and air curtains.

### Server



In recent years, growth in data capacity has caused data center servers to increase density and emit greater amounts of heat. As such, high airflow, high static pressure fans are used to increase cooling performance.

### LCD Display Vending Machine (Touch Panel Type)



Compared with normal vending machines, LCD display vending machines consume more electricity and emit more heat, therefore they require high cooling performance. Also, fans are necessary to circulate the cool air and to cool beverages. As such, fans with high airflow, high static pressure, and low power consumption are used.



### AC Cooling Fan

These are long life, high reliability AC cooling fans. In addition to standard AC cooling fans, the lineup includes ACDC fans which internally convert AC power to DC power. They are suitable for applications such as the cooling of ICT equipment, control panels, general industrial machinery, and FA related devices.

- ACDC Fan
- AC Fan



### Cooling Fan Unit

Fans are embedded in steel sheets or trays and offered as a unit. This reduces labor hours and the risk of human error. As these are customized products, they can be equipped with the required functions to suit the customers' equipment, such as ICT equipment and servers.

# SANUPS

POWER SYSTEMS

New Products / Recommended Products



**Uninterruptible Power Supply (UPS)**  
**Online UPS**

SANUPS A11K

This is a high reliability, online UPS. This product can supply high quality power without interruption even in the event of power supply problems, such as power outages or voltage dips. It is suitable for use in applications such as servers, network environments, financial online systems, and measurement systems.



**PV Inverter**

SANUPS P73K

This is a PV inverter combined with lithium-ion batteries. SANUPS P73K stably supplies power stored in the lithium-ion battery and power generated by photovoltaic panels even during prolonged power outages. Moreover, this product can store utility power in the lithium-ion batteries at night for use during the day together with power obtained from photovoltaic power generation.

**Grid Management System**

SANUPS K23A M Type

This device manages utility power, photovoltaic power, and power stored in batteries, and supplies that power to equipment. A microgrid can enable power production at point of use.



Product Lineup



**Uninterruptible Power Supply (UPS)**

This device constantly supplies power so that a system can function safely without abnormal stoppages or damage in the event of a power outage. UPSs are used as power backup for applications such as information systems or financial systems, which require constant operation.

- Online UPS
- Hybrid UPS
- Parallel Processing UPS

**PV Inverter**

This device supplies power by converting DC power generated by photovoltaic generation systems into AC power. For use in public facilities and industrial installations. Also, with internet access and the "SANUPS NET" cloud service, PV system status can be monitored from devices such as computers or smartphones.

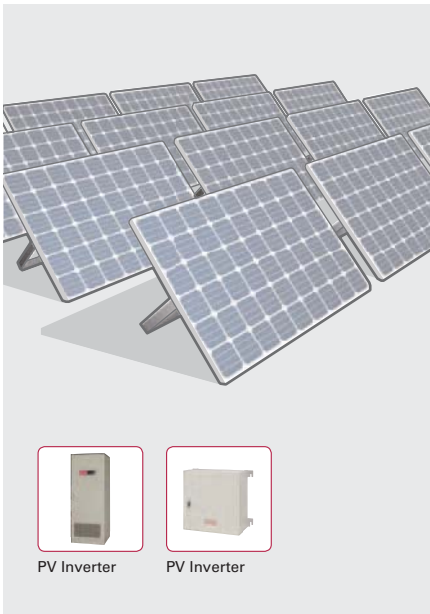
**Grid Management System**

This unit enables efficient electricity use within a microgrid small-scale energy network. One of its main features is storing excess power generated from distributed energy sources, such as photovoltaic and wind power, in lithium-ion or other types of batteries to use power economically.



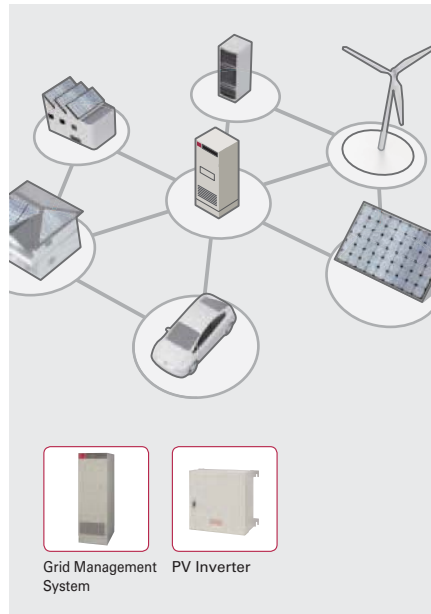
## Product Application Examples

### Photovoltaic Power Systems



Photovoltaic power must be converted from the DC power generated by photovoltaic panels to the AC power used by equipment. PV inverters are used to convert that power.

### Microgrids



Microgrids are small-scale power networks comprised of distributed power supplies such as photovoltaic power systems and batteries. They contain PV inverters which have high efficiency and superior ruggedness, and grid management devices which appropriately manage the flow of power.

### ATM



Financial systems such as ATMs require uninterrupted operation. UPSs are used to backup power systems to supply uninterrupted power in order to avoid system damage and data loss when problems such as power outages or voltage dips occur.



### Peak Cut Device

Large servo press machines and conveyor systems require a large amount of instantaneous electric power to drive motors. The Peak Cut Device can reduce the peak power of the distribution system by releasing stored energy to drive motors, thus keeping the capacity of the distribution system to the minimum necessary.



### Inverter

This inverter converts DC to stable AC power. The inverter provides the highest possible stability by maintaining a one unit reserve capacity. It prevents equipment malfunction due to waveform disturbance by outputting complete sine waves. For use in ICT equipment.



### Static Transfer Switch

This static transfer switch can supply dual power to routers or other systems that can only accept a single incoming power source. It can supply dual commercial power supply lines or dual UPS power supplies to a single-input load. It is suitable for important equipment such as ICT equipment requiring reliability.



### Power Generation Vehicle

This mobile power supply vehicle can be used as emergency power for infrastructure equipment or temporary power such as at outdoor events. Simply pressing the power start switch automatically completes the power supply preparation, enabling power to be supplied swiftly and safely.

# SANMOTION

SERVO SYSTEMS

## New Products / Recommended Products



**Multi-axis Servo Amplifier**  
SANMOTION R ADVANCED MODEL

This DC power input, 4-axis integrated servo amplifier equipped with an EtherCAT interface. This product is compact and space-saving. It is suitable for applications such as chip mounters, semiconductor manufacturing equipment, and conveying machines.



**5-Phase Stepping Driver**  
SANMOTION F5

This is a 5-phase stepping driver with AC power input. It features low vibration and high torque driving. SANMOTION F5 is suitable for applications such as semiconductor manufacturing equipment and conveying machines.

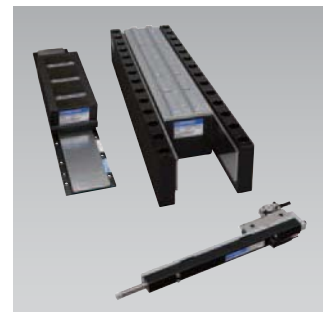


**Closed Loop Stepping Driver**

SANMOTION Model No.PB

This is a DC power input stepping driver. This product enables space saving and wire saving as it is capable of driving 4 stepping motor axes with only one unit. Moreover, it can operate multiple motors with no step-out, thereby helping to shorten takt time. SANMOTION Model No.PB is suitable for applications such as machine tools, semiconductor manufacturing equipment, food machinery, and industrial sewing machines.

## Product Lineup



### Servo Systems

These are high-accuracy, high performance servo systems. SANYO DENKI offers a lineup consisting of servo motors and servo amplifiers used to operate equipment requiring high-accuracy driving, such as semiconductor manufacturing equipment, robots, and machine tools. These products enable high speed and accurate positioning, thereby shortening takt time.

- AC Servo Systems
- DC Servo Systems

### Linear Servo Systems

This servo motor moves directly in a straight line. Compared with rotational motors, linear servo systems have higher speed and higher accuracy, which improves productivity. There is no need to use a ball screw to create straight-line motion so systems can be simplified. Linear servo systems are suitable for applications requiring high speed and high accuracy, such as semiconductor manufacturing equipment and chip mounters.

## Product Application Examples

### Articulated Robots



Articulated robots used in factories require highly accurate driving. As such, motion controllers capable of precise robot positioning and high-speed servo motors with accurate positioning are used.

### Machine Tools



Machine tools must be able to process a wide-variety of parts, therefore they require accurate and highly precise driving. As such, servo motors with high-accuracy positioning, and highly precise stepping motors with simple controls are used.

### River Monitoring Camera



This camera is installed outdoors and monitors the water level of rivers. As such, it requires a closed loop stepping motor with high-waterproof and dustproof performance and will not step-out with excessive loads.



### Stepping Systems

These stepping systems achieve high-accuracy positioning with simple control. In addition to 2-phase stepping systems, 3-phase stepping systems, and 5-phase stepping systems, our lineup includes closed loop stepping systems that offer all the advantages of both AC servo systems and stepping systems. Stepping systems can be used in a wide-range of applications, including

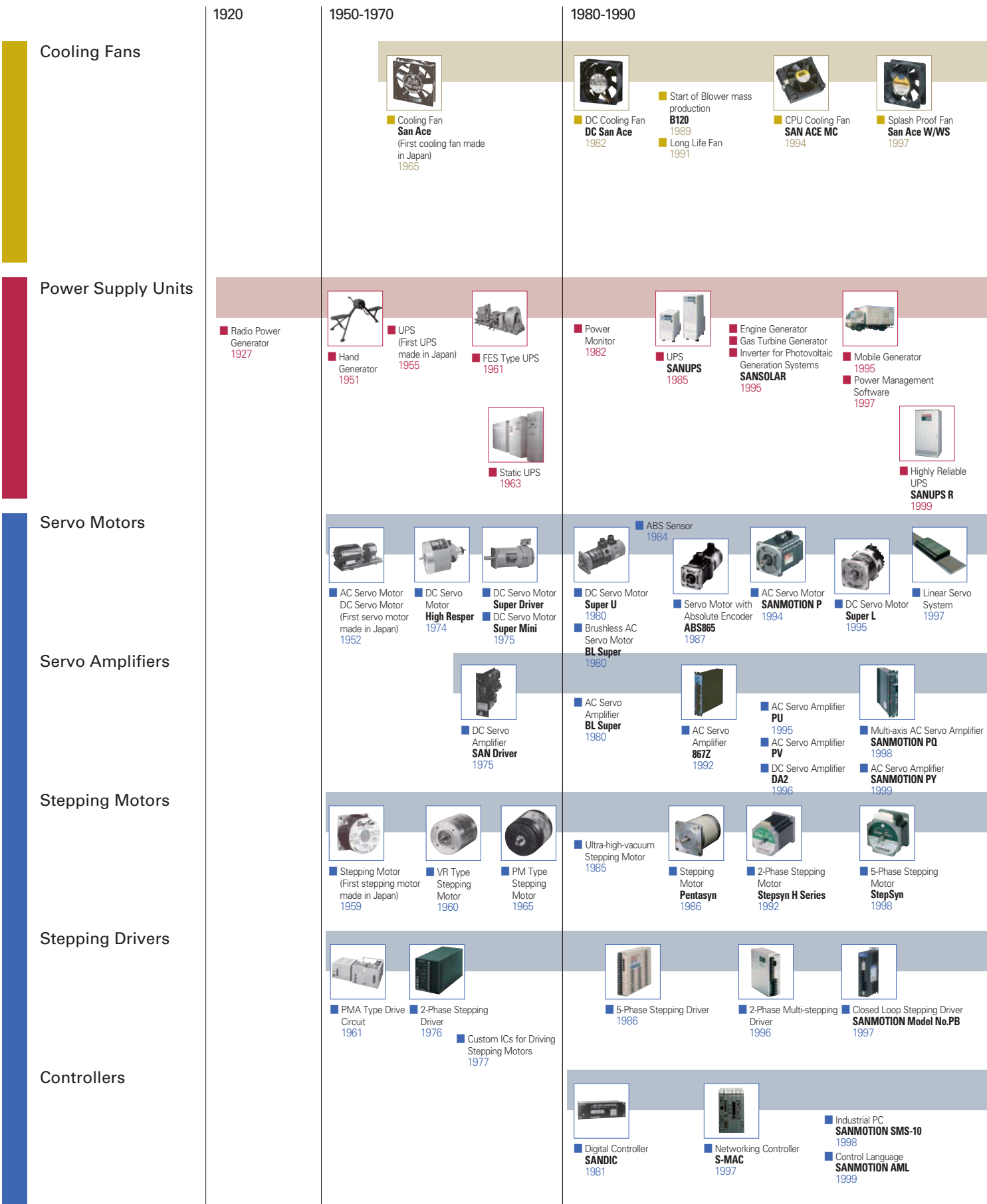
semiconductor manufacturing equipment, chip mounters, analysis/inspection equipment in the medical and environmental fields, ATMs, and surveillance cameras.

- Closed Loop Stepping Systems
- 2-phase Stepping Systems
- 3-phase Stepping Systems
- 5-phase Stepping Systems



### Motion Controller

Combines robot system control and image processing in a single unit.



2000



■ High Airflow DC Cooling Fan  
**San Ace G**  
2003



■ Silent Fan  
**San Ace S**  
2006



■ Low Power Consumption Fan  
**San Ace**  
2009



■ Counter Rotating Fan  
**San Ace**  
2003



■ Oil Proof Fan  
**San Ace WF**  
2004



■ Centrifugal Fan  
**San Ace C**  
2009



■ Network Power Manager  
**2000**  
■ Mid-capacity UPS  
**SANUPS AMB**  
2001



■ Parallel Processing UPS  
**SANUPS E23A**  
2002



■ Static Transfer Switch  
**SANUPS S**  
2007



■ Voltage Dip Compensator  
**SANUPS C23A**  
2009



■ UPS Using Nickel-Hydrogen Batteries  
**SANUPS A11G-Ni**  
2005



■ Inverter  
**SANUPS D11A**  
2008



■ DC Servo Motor  
**SANMOTION T**  
2001



■ AC Servo Motor  
**SANMOTION Q**  
2002



■ AC Servo Motor  
**SANMOTION R**  
2006



■ AC Servo Amplifier  
**SANMOTION Q**  
2002



■ AC Servo Amplifier  
**SANMOTION R**  
2005



■ Closed Loop Stepping Motor  
**SANMOTION Model No.PB**  
2001



■ 5-Phase Stepping Motor  
**SANMOTION F**  
2003



■ 2-Phase Stepping Motor with Integrated Driver  
**SANMOTION F2**  
2006



■ 5-Phase Stepping Motor with Integrated Driver  
**SANMOTION F5**  
2009



■ Stepping Driver  
**SANMOTION F**  
2003



■ Synchronous Driver  
**SANMOTION G**  
2004



■ 5-Phase On-board Type Stepping Driver  
2007



■ Industrial PC  
**SANMOTION SMS-15**  
2002



■ Motion Controller  
**SANMOTION C**  
2005

2010



■ Splash Proof Centrifugal Fan  
**San Ace W**  
2010



■ AC Fan  
**San Ace 120AD**  
2013



■ Splash Proof Fan  
**San Ace W**  
2014



■ Centrifugal Fan  
**San Ace C225**  
**San Ace C221**  
2015



■ High Static Pressure Fan  
**San Ace 40**  
**San Ace 172**  
2015



■ High Airflow Long Life Splash Proof Fan  
**San Ace 40W**  
2015



■ High Airflow Long Life Fan  
**San Ace L**  
2013



■ Long Life Counter Rotating Fan  
**San Ace L**  
2013



■ Wide Temperature Range Fan  
**San Ace T**  
2014



■ AC Fan  
**San Ace 92AD**  
2015



■ High Airflow Fan  
**San Ace 140**  
2015



■ Reversible Flow Fan  
**San Ace 136RF**  
2015



■ Regenerative Power Compensator  
**SANUPS K23A**  
2011



■ Independent Power Supply for PV Power Generation Systems  
**SANUPS P11A**  
2011



■ PV Monitor  
**SANUPS PV Monitor E Model**  
2013



■ Online UPS  
**SANUPS A11J**  
2014



■ Online UPS  
**SANUPS A11K**  
2015



■ Peak Cut Device  
**SANUPS K33A**  
2011



■ Grid Management System  
**SANUPS K23A M Type**  
2012



■ PV System Status Monitoring Service  
**SANUPS NET**  
2013



■ PV Inverter  
**SANUPS P73K**  
2015



■ Low Inertia AC Servo Motor  
**SANMOTION R**  
2012



■ AC Spindle Motor  
**SANMOTION S**  
2013



■ AC Servo Motor  
275 mm sq.  
**SANMOTION R**  
2014



■ Battery-less Optical Absolute Encoder  
**Model No. HA035**  
2014



■ Compact Cylinder Linear Servo Motor  
**SANMOTION**  
2014



■ AC Servo Motor  
20 mm sq.  
**SANMOTION R**  
2014



■ AC Servo Amplifier  
**SANMOTION S**  
2013



■ AC Servo Amplifier  
**SANMOTION R 3E Model**  
2013



■ Multi-axis DC Servo Amplifier with EtherCAT Interface  
**SANMOTION R ADVANCED MODEL**  
2015



■ 5-Phase Linear Actuator Stepping Motor  
**SANMOTION F5**  
2010



■ 14 mm sq. 2-Phase Stepping Motor  
**SANMOTION F2**  
2011



■ 5-Phase Stepping Motor  
**SANMOTION F5**  
2014



■ 2-Phase Stepping Driver  
**SANMOTION F2**  
2014



■ 5-Phase Stepping Driver  
**SANMOTION F5**  
2014



■ Closed Loop Stepping Driver  
**SANMOTION Model No.PB**  
2015



■ Image Processing Device and Touch Panel  
**SANMOTION C**  
2014



### Kangawa Works

Total area: 67,140 m<sup>2</sup>  
 Number of employees: 656  
 ISO9001 ISO14001

Main Products



Motor

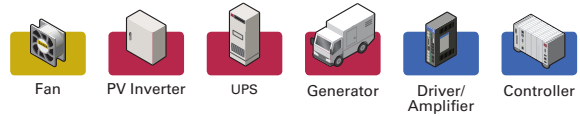
Kangawa Works utilizes an integrated manufacturing system to produce motors for our Servo Systems Division. Our technologically advanced machinery and equipment are efficiently arranged. Out of consideration for the environment, we have installed a rainwater treatment facility and a solar power generation system. Kangawa Works also houses the headquarters of SANYO DENKI Techno Service CO., LTD.



### Fujiyama Works

Total area: 99,828 m<sup>2</sup>  
 Number of employees: 527  
 ISO9001 ISO14001

Main Products



Fujiyama Works is a production site for our Cooling, Power, and Servo Systems Divisions. We use highly efficient automated production lines throughout the entire facility. We also have a solar power generation system.



### Shioda Works

Total area: 5,698 m<sup>2</sup>  
 ISO9001 ISO14001

Main Products



PV Inverter

Shioda Works is a production site for PV inverters. We use highly reliable assembly and inspection equipment to produce high performance, rugged products.



### Tsuiji Works

Total area: 9,580 m<sup>2</sup>  
 ISO9001 ISO14001

Main Products



Tsuiji Works is a production site of servo amplifier housings and options such as cables and connectors. A car maintenance center is located here, as is a distribution warehouse.

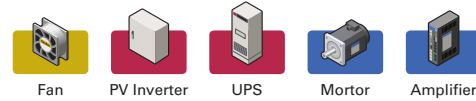
1st Works , 2nd Works



**SANYO DENKI PHILIPPINES, INC.**

Location: Subic, Philippines  
 Total area: 43,000 m<sup>2</sup>  
 Number of employees: 560  
 ISO9001 ISO14001 OHSAS18001

Main Products



3rd Works



SANYO DENKI PHILIPPINES, INC., established in 2000, is a production site for our Cooling, Power, and Servo Systems Divisions. We use highly efficient automated production lines such as SMT (surface mount technology) lines. There is also a Design Department within the Cooling Systems Division for developing and designing fans.

SMT line



Design rooms



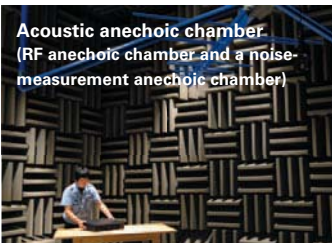
**SANYO DENKI (Zhongshan) CO., LTD.**

Location: Zhongshan, China  
 Total area: 2,110 m<sup>2</sup>  
 Number of employees: 42

Main Products



SANYO DENKI (Zhongshan) CO., LTD. was established in 2011. This is the production site of fan finger guards.



### Technology Center

Total area: 44,908 m<sup>2</sup>  
Number of employees: 346  
ISO9001 ISO14001

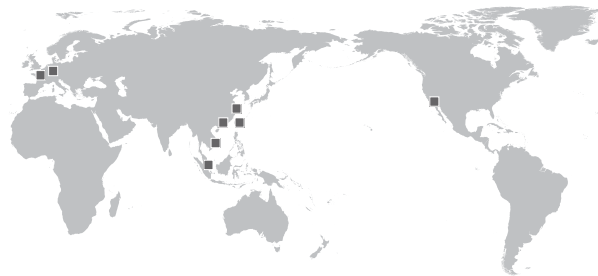
Technology Center also hosts vibration, life, and environmental testing laboratories for characteristics and evaluative tests.

Technology Center is our main product research and development facility. We are constantly developing highly reliable and high performance products in close coordination with our production sites in Ueda, Nagano.

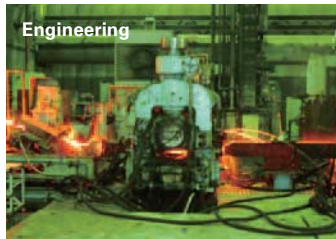
### Technical Centers

(U.S., Shanghai, Taiwan, Singapore, Shenzhen, Thailand, Germany, France)

These are our international sites for product research and development. Customers can receive the same product development and product support whether in Japan or overseas.







### SANYO KOGYO CO., LTD.

SANYO KOGYO CO., LTD. was established in 1944, and became a member of the SANYO DENKI Group in July 2009.

It is a trading company whose business extends to electrical and electronic systems design and engineering.

Their business ranges from sales of diverse electrical and electronic products, planning and design of industrial control systems, to installation and maintenance.

Number of employees: 129

Headquarters: Kawasaki-shi, Kanagawa

Tokyo Head Office: Meguro-ku, Tokyo

Works: Kanagawa / Tokyo / Tochigi / Nagano / Osaka / Okayama / Hiroshima

Main business: Sales of electric equipment, control devices and electric materials for industrial use and electric construction.



### SANYO DENKI Techno Service CO., LTD.

SANYO DENKI Techno Service CO., LTD. was established in 1999 as a member of the SANYO DENKI Group. This company supports the group's manufacturing and service activities.

Number of employees: 454

ISO9001 ISO14001

Headquarters: Ueda-shi, Nagano

Main business: Electronics manufacturing, repair, and maintenance; field service; logistics service; facility maintenance; recycling; solar power generation; car maintenance service; insurance agency business, etc.



## Environmental Policy

### Basic Philosophy

SANYO DENKI helps preserve the global environment and enhance humanity's prosperity through its corporate activities for society and the environment.

### Basic Policy

SANYO DENKI CO., LTD., comprising Kangawa Works, Shioda Works, Fujiyama Works, Technology Center and Head Office, develops, designs, manufactures and sells cooling fans, UPSs, PV inverters, engine generators, servo systems, stepping systems, controllers, encoders, and drivers. Under the principles listed below, each member of SANYO DENKI will take part in eco-friendly activities to help preserve our abundant global environment.

1. We will continuously improve our environmental management system and work hard to prevent pollution and reduce the environmental impact of our activities.
2. We will assess the environmental impact of our corporate activities and focus on our environmental objectives and targets.  
We will prioritize the following environmental management themes:
  - (1) Develop, design, manufacture, and sell environmentally friendly products
  - (2) Reduce or eliminate the use of hazardous chemicals
  - (3) Reduce the environmental impact (power consumption, paper use, waste, etc.) of business activities
  - (4) Contribute to the local community
3. We will observe environmental laws, restrictions, and other rules agreed upon by organizations and strive for environmental preservation.
4. We will document, carry out, and maintain our environmental principles, make them known to all our employees, and also ask that our business partners cooperate in the pursuit of these principles and reflect them in their environmental management activities.
5. We will review the environmental management system periodically.
6. We will openly publicize the environmental principles to parties in and outside the company.

ISO14001: Head Office, Technology Center, Kangawa Works, Fujiyama Works, Shioda Works, SANYO DENKI PHILIPPINES, INC.



On-site use of solar energy  
(Photo shows Fujiyama Works)



ECO PRODUCTS are designed with the concept of lessening impact on the environment in the process from product development to waste disposal.

#### New ECO PRODUCTS for FY 2014

**120 x 120 x 38 mm Long Life Fan San Ace 120 9LG type**  
CO<sub>2</sub> emissions cut by 34% compared with our conventional model



**Online UPS SANUPS A11K**  
CO<sub>2</sub> emissions cut by 21% compared with our conventional model



**AC Servo Motor 20 mm sq. SANMOTION R**  
CO<sub>2</sub> emissions cut by 10% compared with our conventional model



<b>1920</b>	Aug. 1927	Sanyo Shokai Co., Ltd. founded by Hideo Yamamoto to import and sell electrical components
<b>1930</b>	Oct. 1932	A factory for the production of small AC and DC generators and communications equipment power units established in the Nishi-Sugamo (currently Higashi-Ikebukuro) area of Tokyo
	Dec. 1936	Reorganized into a joint stock company (Sanyo Shokai Co., Ltd.)
<b>1940</b>	Apr. 1942	Renamed SANYO DENKI CO., LTD.
	Jan. 1943	Ueda factories (Ueda Kita Works, former Midorigaoka Works) established
	Dec. 1945	Head Office and Tokyo Works relocated to the North Otsuka area of Tokyo
<b>1960</b>	Sep. 1962	Listed on the Second Section of the Tokyo Stock Exchange
<b>1970</b>	Apr. 1979	Shioda Works established
<b>1980</b>	Mar. 1980	Tsuiji Works established
	Oct. 1984	Aoki Works established
	Dec. 1988	SANYO DENKI EUROPE SA. (France) established
<b>1990</b>	Apr. 1990	Fujiyama Works established
	Apr. 1995	SANYO DENKI AMERICA, Inc. (U.S.A.) established
	Jul. 1997	Technology Center established
	Mar. 1999	SANYO DENKI Techno Service Co., Ltd., established
<b>2000</b>	Feb. 2000	SANYO DENKI PHILIPPINES, INC. (Philippines) established
	Apr. 2003	SANYO DENKI SHANGHAI CO., LTD. (China) established
	Jun. 2005	SANYO DENKI (H.K.) CO., LIMITED established
	Jun. 2005	SANYO DENKI Techno Service (Shenzhen) CO., LTD. established
	Aug. 2005	SANYO DENKI SINGAPORE PTE. LTD. (Singapore) established
	Oct. 2005	SANYO DENKI GERMANY GmbH (Germany) established
	Nov. 2005	SANYO DENKI KOREA CO., LTD. (Korea) established
	Dec. 2005	SANYO DENKI TAIWAN CO., LTD. (Taiwan) established
	Jan. 2008	SANYO DENKI (Shenzhen) CO., LTD. (China) established
	Jan. 2009	Kangawa Works established
	Jul. 2009	SANYO KOGYO CO., LTD. became a wholly owned subsidiary
<b>2010</b>	Apr. 2011	SANYO DENKI (Zhongshan) CO., LTD. (China) established
	Jul. 2011	SANYO DENKI (THAILAND) CO., LTD. (Thailand) established
	Mar. 2013	Listed on the First Section of the Tokyo Stock Exchange
	Aug. 2013	Head Office relocated to its current location
	Nov. 2014	SANYO DENKI ENGINEERING (Shanghai) CO.,LTD. established
	Feb. 2015	SANYO DENKI INDIA PRIVATE LIMITED (India) established



1932 Factory for production established in the Nishi-Sugamo (currently Higashi-Ikebukuro) area of Tokyo



1943 Ueda Kita Works established



1945 Head Office and Tokyo Works relocated



2000 SANYO DENKI PHILIPPINES, INC. established

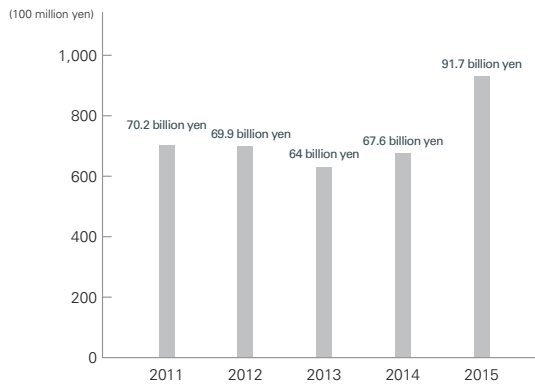


2013 Head Office relocated to its current location

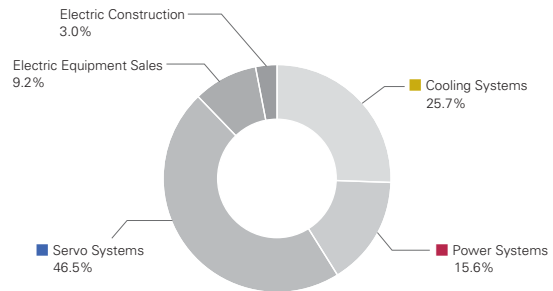
Founded	August 1927
Incorporated	December 1936
Capital	9.9 billion yen (As of March 31, 2015)
Annual Sales	91 billion yen (As of March period, 2015)
CEO/President & COO	Shigeo Yamamoto
Number of Employees	SANYO DENKI Group 3,041 (As of September 30, 2015)
Corporate Headquarters	3-33-1 Minami-Otsuka, Toshima-ku, Tokyo, 170-8451, Japan TEL: +81 3 5927 1020 FAX: +81 3 5952 1600
Stock Listing	The First Section of the Tokyo Stock Exchange
Homepage	<a href="http://www.sanyodenki.com">http://www.sanyodenki.com</a>

## Performance

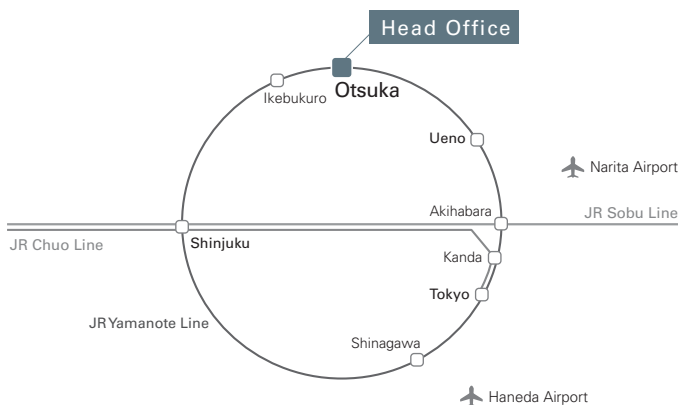
■ Sales turnover  
(period ending Mar. 2015)



■ Sales turnover percentage by business division  
(period ending Mar. 2015)

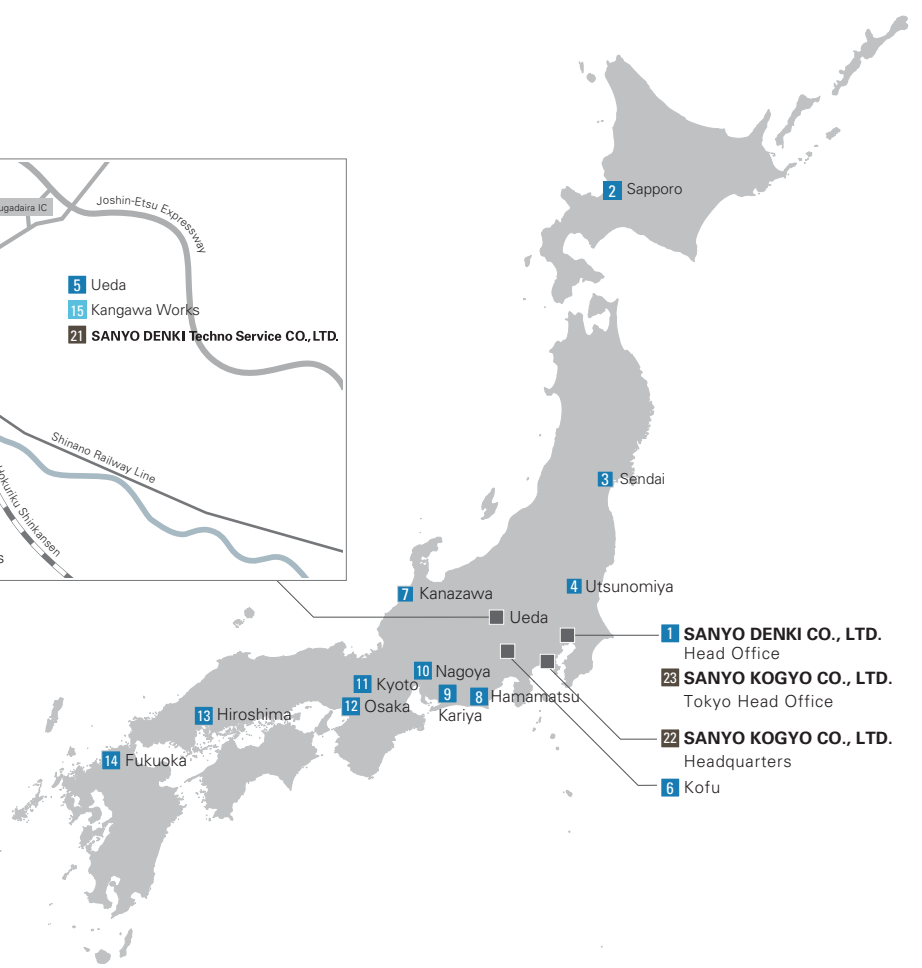
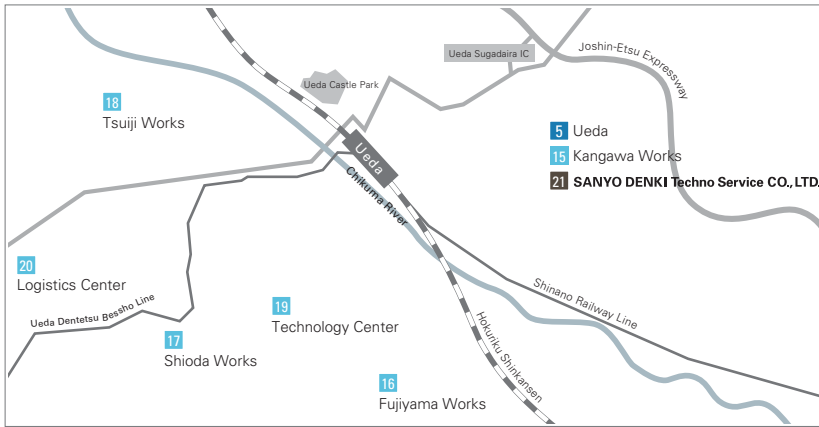


## Access



- One minute on foot from Otsuka Station South Exit on the JR Yamanote Line
- One minute on foot from Otsuka-Ekimae Station on the Toden Arakawa Line
- Approx. 20 minutes from Tokyo Station to Otsuka Station
- From Haneda Airport to Otsuka Station Approx. 1 hour
- From Narita Airport to Otsuka Station Approx. 1 hour, 15 minutes

■ Ueda Works



- 1 SANYO DENKI CO., LTD.**  
Head Office
- 23 SANYO KOGYO CO., LTD.**  
Tokyo Head Office
- 22 SANYO KOGYO CO., LTD.**  
Headquarters
- 6 Kofu**

■ Sales

**1 Head Office**

3-33-1 Minami-Otsuka,  
Toshima-ku, Tokyo,  
170-8451, Japan  
TEL: +81 3 5927 1020  
FAX: +81 3 5952 1600

**2 Sapporo**

7-3-2 Kita1Jyouinishi, Chuo-ku,  
Sapporo-shi, Hokkaido,  
060-0001, Japan  
TEL: +81 11 280 1202  
FAX: +81 11 280 1212

**3 Sendai**

2-2-6 Chuo, Aoba-ku,  
Sendai-shi, Miyagi,  
980-0021, Japan  
TEL: +81 22 224 5491  
FAX: +81 22 224 5493

**4 Utsunomiya**

3-1-1 Higashisyukugo,  
Utsunomiya-shi, Tochigi,  
321-0953, Japan  
TEL: +81 28 639 1770  
FAX: +81 28 639 1660

**5 Ueda**

5-4 Tonoshiro, Ueda-shi,  
Nagano, 386-8634, Japan  
TEL: +81 26 871 8544  
FAX: +81 26 823 8155

**6 Kofu**

2-3-16 Aioi, Kofu-shi,  
Yamanashi, 400-0858, Japan  
TEL: +81 55 236 3434  
FAX: +81 55 236 3488

**7 Kanazawa**

3-1-1 Hirooka, Kanazawa-shi,  
Ishikawa, 920-0031, Japan  
TEL: +81 76 235 2041  
FAX: +81 76 235 2040

**8 Hamamatsu**

111-2 Itaya-machi, Naka-ku,  
Hamamatsu-shi, Shizuoka,  
430-7712, Japan  
TEL: +81 53 455 3321  
FAX: +81 53 455 3396

**9 Kariya**

2-15 Otemachi, Kariya-shi,  
Aichi, 448-0857, Japan  
TEL: +81 56 627 0221  
FAX: +81 56 627 0231

**10 Nagoya**

1-11-1 Nishiki, Naka-ku,  
Nagoya-shi, Aichi,  
460-0003, Japan  
TEL: +81 52 231 3335  
FAX: +81 52 231 3209

**11 Kyoto**

773 Uematsu-cho,  
Matsubara-sagaru,  
Teramachi-dori, Shimogyo-ku,  
Kyoto-shi, Kyoto,  
600-8028, Japan  
TEL: +81 753 442 515  
FAX: +81 753 442 513

**12 Osaka**

1-4-70 Shiromi, Chuo-ku,  
Osaka-shi, Osaka,  
540-0001, Japan  
TEL: +81 6 6946 6006  
FAX: +81 6 6946 6003  
The address will be changed to  
the following from February 2016.  
1-2-27 Shiromi, Chuo-ku,  
Osaka-shi, Osaka,  
540-6007, Japan

**13 Hiroshima**

1-2-21 Matoba-cho, Minami-ku  
Hiroshima-shi, Hiroshima,  
732-0824, Japan  
TEL: +81 82 263 5011  
FAX: +81 82 263 5156

**14 Fukuoka**

3-1-1 Hakataeki Higashi,  
Hakata-ku, Fukuoka-shi, Fukuoka,  
812-0013, Japan  
TEL: +81 92 482 2401  
FAX: +81 92 482 2398

■ Production and Development

Production Sites

**15 Kangawa Works**

5-4 Tonoshiro,  
Ueda-shi, Nagano  
386-8634, Japan  
TEL: +81 26 822 8585  
FAX: +81 26 823 8355

**16 Fujiyama Works**

4016 Fujiyama,  
Ueda-shi, Nagano  
386-1212, Japan  
TEL: +81 26 838 8111  
FAX: +81 26 838 8183

**17 Shioda Works**

517 Goka, Ueda-shi, Nagano  
386-1324, Japan  
TEL: +81 26 838 6611  
FAX: +81 26 838 0585

**18 Tsuji Works**

827 Tsuji, Ueda-shi, Nagano  
386-1107, Japan  
TEL: +81 26 827 8520  
FAX: +81 26 826 5841

Research and Development

**19 Technology Center**

812-3 Shimonogo,  
Ueda-shi, Nagano, 386-1211,  
Japan  
TEL: +81 26 837 1700  
FAX: +81 26 837 1704

**20 Logistics Center**

**(Formerly Aoki Works)**  
252-5 Tonodo, Aoki-mura,  
Chiiisagata-gun, Nagano, 386-1604  
TEL: +81 26 831 3440  
FAX: +81 26 831 3430

■ Group Company

**21 SANYO DENKI Techno Service CO.,LTD.**

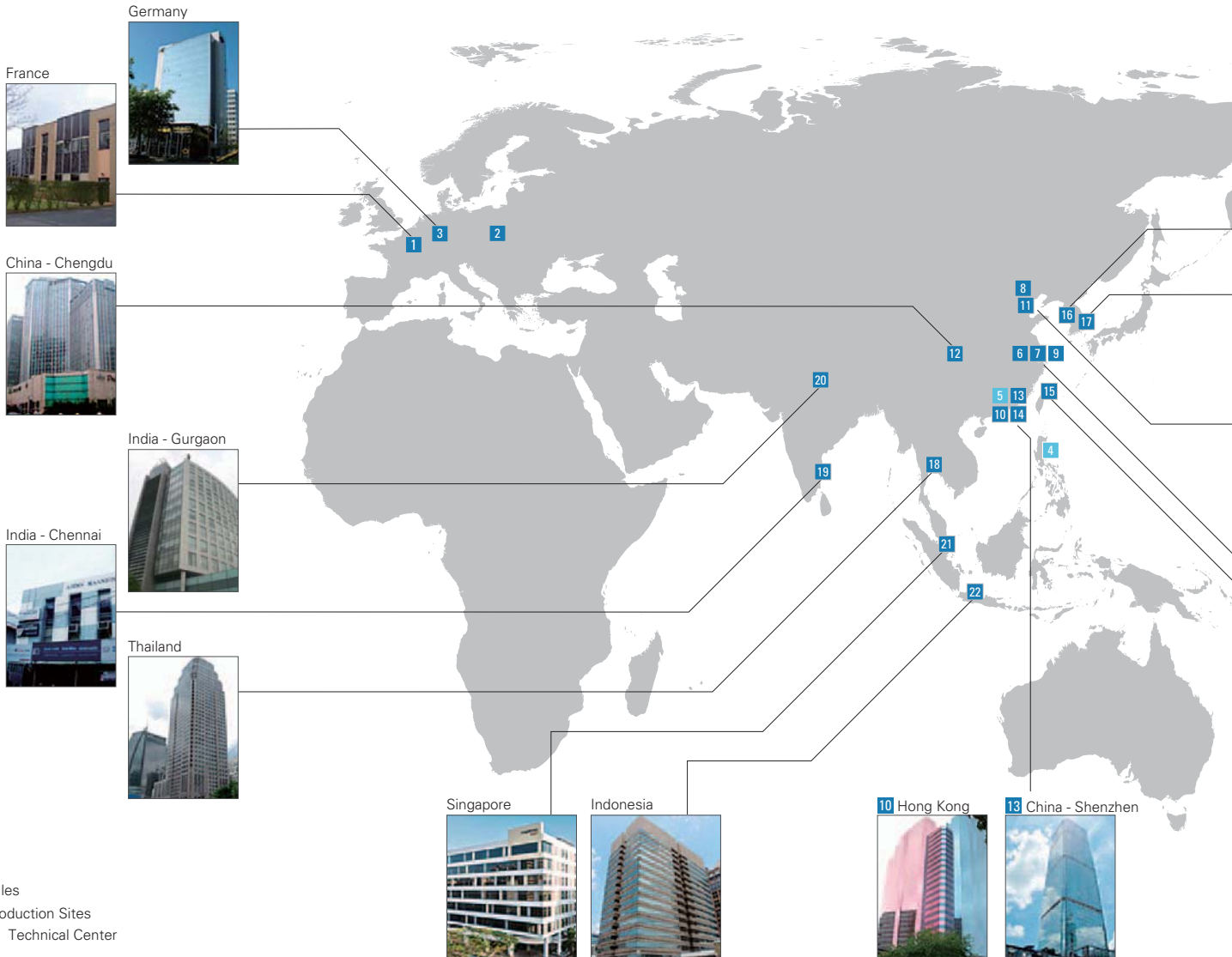
5-4 Tonoshiro, Ueda-shi,  
Nagano, 386-8634, Japan  
TEL: +81 26 871 8577  
FAX: +81 26 823 8355

**SANYO KOGYO CO.,LTD.**

**22 Headquarters**  
3-4-3 Ikegamishin-cho,  
Kawasaki-ku, Kawasaki-shi,  
Kanagawa, 210-0832, Japan  
TEL: +81 44 299 5451  
FAX: +81 44 270 1302

**23 Tokyo Head Office**

2-17-12 Aobadai, Meguro-ku,  
Tokyo, 153-0042, Japan  
TEL: +81 3 3464 8901  
FAX: +81 3 3464 8900



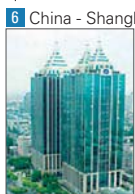
- Sales
- Production Sites
- TC Technical Center

Europe

- 1 SANYO DENKI EUROPE SA.**  
**TC**  
P.A. PARIS NORD II, 48 Allée des  
Erables-VILLEPINTE, BP.57286, F-95958  
ROISSY CDG CEDEX, FRANCE  
TEL: +33 1 48 63 26 61
- 2 Poland Branch**  
ul. Wodociągowa 56  
30-205 Kraków, Polska  
TEL: +48 12 427 30 73
- 3 SANYO DENKI GERMANY GmbH**  
**TC**  
Frankfurter Strasse 92,  
65760 Eschborn, Germany  
TEL: +49 6196 76113 0

Asia

- 4 SANYO DENKI PHILIPPINES, INC.**  
No. 2 Block F-1 Subic Technopark,  
Argonaut Highway Boton Area,  
Subic Bay Freeport Zone  
PHILIPPINES 2222  
TEL: +63 47 252 1735
- 5 SANYO DENKI (Zhongshan) CO., LTD.**  
1st Floor, Building A2, eNet Industrial  
Park, 17 Fuse Road, Sanjiao Town,  
Zhongshan 528445 China  
TEL: +86 760 89936321
- 6 SANYO DENKI SHANGHAI CO., LTD.**  
Room2106-2110, Bldg A, Far East  
International Plaza, No. 319,  
Xianxia Road, Shanghai, 200051, China  
TEL: +86 21 6235 1107
- 7 Technical Center TC**  
Room 501, Huiyinmingzun Building 1,  
No. 609, Lane 599, East Yunling Road  
Shanghai 200062 China  
TEL: +86 21 5292 5936
- 8 Beijing Branch**  
Room1222, Tower B, Beijing COFCO  
Plaza, No. 8 Jianguomennei Dajie,  
Dong Cheng District, Beijing 100005 China  
TEL: +86 10 6522 2160
- 9 SANYO DENKI ENGINEERING(Shanghai) CO., LTD.**  
Area B 1F, Building 8, No. 1199 Ji Di Road,  
Minhang District, Shanghai, China  
TEL: +86 21 6221 7069
- 10 SANYO DENKI (H.K.) CO., LIMITED**  
Room 2305, 23/F, South Tower,  
Concordia Plaza, 1 Science Museum  
Road, TST East, Kowloon, Hong Kong  
TEL: +852 2312 6250
- 11 Tianjin Representative Office**  
Room AB 16th Floor TEDA Building,  
No. 256 Jie Fang Nan Road,  
Hexi District, Tianjin 300042 China  
TEL: +86 22 2320 1186
- 12 Chengdu Representative Office**  
Room2105B, Block A, Times Plaza,  
2 Zongfu Road, Jinjiang District,  
Chengdu, 610016 China  
TEL: +86 28 8661 6901



**13 SANYO DENKI (Shenzhen) CO., LTD.**  
**TC**  
 2F 02-11, Shenzhen International Chamber of Commerce Tower, No. 168 Fuhua 3 Road, Futian District, Shenzhen, China 518048  
 TEL: +86 755 3337 3868

**14 SANYO DENKI ENGINEERING(Shenzhen) CO., LTD.**  
 5F, 2Blk., 2Qu, Zhongguan, Honghualing Ind. South Area, Nanshan, Shenzhen, 518055, Guangdong, China  
 TEL: +86 755 8342 5095

**15 SANYO DENKI TAIWAN CO., LTD.**  
**TC**  
 N-711, 7F, Chia Hsin 2nd Bldg., No. 96, Sec.2, Zhongshan N. Rd., Taipei 10449, Taiwan (R.O.C.)  
 TEL: +886 2 2511 3938

**16 SANYO DENKI KOREA CO., LTD.**  
 9F, Sunhwa B/D 89, Seosomun-ro, Jung-gu, Seoul, 100-731, Korea  
 TEL: +82 2 773 5623

**17 Busan Branch**  
 8F, CJ Korea Express Bldg., 119, Daegyo-ro, Jung-gu, Busan, 600-016, Korea  
 TEL: +82 51 796 5151

**18 SANYO DENKI (THAILAND) CO., LTD.**  
**TC**  
 388 Exchange Tower, 25th Floor, Unit 2501-1, Sukhumvit Road, Klongtoey, Klongtoey, Bangkok 10110 Thailand  
 TEL: +66 2261 8670

**19 SANYO DENKI INDIA PRIVATE LIMITED**  
 #14 (Old No. 6/3), Avenue Road, Nungambakkam, Chennai - 600034 India  
 TEL: +91 44 420 384 72

**20 Gurgaon Office**  
 Unit No. 907, 9th Floor in Vatika City Point, Mehrauli Gurgaon Road, Gurgaon, Haryana, India  
 TEL: +91 12 442 183 26

**21 SANYO DENKI SINGAPORE PTE. LTD.**  
**TC**  
 988 Toa Payoh North, #04-05/06/07/08, Singapore 319002  
 TEL: +65 6223 1071

**22 Indonesia Representative Office**  
 Summitmas II 4th Floor, Jl. Jend. Sudirman Kav.61-62, Jakarta 12190, Indonesia  
 TEL: +62 21 252 3202

## North America

**23 SANYO DENKI AMERICA, INC.**  
**TC**  
 468 Amapola Avenue, Torrance, CA 90501 U.S.A.  
 TEL: +1 310 783 5400

**24 Silicon Valley Office**  
 1700 Wyatt Dr. Suite 17, Santa Clara, CA 95054 U.S.A.  
 TEL: +1 408 988 1700

**25 Chicago Office**  
 1340 Remington Road Suite E, Schaumburg, IL 60173 U.S.A.  
 TEL: +1 224 353 6420

**26 Detroit Office**  
 37511 Schoolcraft Road, Livonia, MI 48150 U.S.A.  
 TEL: +1 734 525 1806

**SANYO DENKI CO., LTD.**