SANY

Intelligent Power Overall Solution Provider

SANY GENERATOR SET



INTELLIGENT POWER

OVERALL SOLUTION PROVIDER

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IMPRESSION

COMPANY

Intelligent power overall solution provider

Sany Corporate Philosophy: Quality Changes the World
Company Vision: creating first-class enterprises, cultivating first-class talents and making first-class contributions

GROUP INTRODUCTION

SANY Group Co., Ltd. was founded in 1989 with the vision of "creating first-class enterprises, cultivating first-class talents and making first-class contributions".

SANY Group's business covers a wide range of products, including concrete machinery, excavator, lifting machinery, road construction machinery, piling machinery, wind power equipment, new energy heavy trucks, port machinery, petroleum equipment,mining equipment, PC for assembled buildings, and hydrogen energy equipment. It owns three listed companies, namely SANY Heavy Industry (SH, 600031), SANY International (HK, 00631) and SANY Heavy Energy (SH, 688349), and wholly-owned holdings of "the world's No. 1 brand of concrete machinery" Putzmeister, Germany,and shareholding in "the world's largest truck crane giant" Palfinger, Austria.

SANY Group is listed on the Forbes Global 500 list, and its SANY Heavy Industry is No. 1 in China and No. 2 in the world in the field of construction machinery, of which concrete machinery ranks No. 1 in the world, and excavator ranks No. 1 in global sales.

SANY Group has industrial parks in Changsha, Beijing, Shanghai, Shenyang, Kunshan, Zhuhai and Urumqi, as well as R&D and manufacturing centers in India, the U.S., Germany and Brazil, and its business covers more than 150 countries and regions around the world.

Based on the main business of equipment manufacturing, SANY Group is vigorously developing new businesses such as environmental protection equipment, renewable energy, housing industrialization and industrial Internet.At present, SANY Group has become a mature PC building industrialization equipment provider in China. SANY Heavy Energy is a provider of complete wind power solutions and renewable clean energy in China.



BUILD THE LEADING ENTERPRISE OF THE BELT AND ROAD

16 overseas manufacturing facilities

Exports to over **180** countries and regions

No.1 Chinese brand in over **122** countries

6-year overseas export CAGR of **39%**

Over **75%** of sales from Belt & Road countries



SANY Germany
Bedburg, North Rhine-Westphalia

Putzmeister
(SANY Concrete Machinery International Headquarters), Stuttgart, Baden-Württemberg



Urumqi Industrial Park



Beijing Industrial Cluster
Huilongguan/Nankou
Coal Machinery, Mining Machinery



Shenyang Industrial Park

SANY America
Peachtree City, Georgia





Central-Western Industrial Cluster
Xi'an/Chongqing/Shuozhou/Bayannur

SANY Brazil
São Paulo, São Paulo State



Global Manufacturing & Regional Hubs

- Silk Road Economic Belt
- Maritime Silk Road
- SANY Industrial Base
- Overseas Branch Offices & Regional Headquarters
- Putzmeister (SANY Concrete Machinery International Headquarters)

SANY Indonesia
Jakarta, Jakarta Special Capital Region
Domestic Industrial Clusters



Hunan Industrial Cluster
Changsha/Ningxiang/Zhuzhou/Yiyang/Changde/Loudi/Shaoyang/Chenzhou/Huaihua/Shaoshan/Yueyang



Greater Bay Area Industrial Cluster
Zhuhai/Guangzhou/Shenzhen



Yangtze River Delta Industrial Cluster
Lingang/Kunshan/Changshu/Nantong/Rudong/Huzhou/Hangzhou



WISDOM

PRODUCTS

Intelligent power overall solution provider

COMPANY INTRODUCTION

SANY DEUTZ is a joint venture between SANY Group and Deutz in 2019, integrating product development, production, sales and service as one of the engine manufacturing enterprises. At present, there are nearly 500 employees, 200+ R&D personnel, with international leading automated production equipment, professional management, R&D, production, and perfect sales and service team, which provides a strong guarantee for the quality of the products, large-scale and standardized production, and fast delivery. Our products are exported to America, Europe, Asia, Africa and other countries and regions.

At present, the company has more than 160 engine products, with a displacement range of 2L-14L and a power range of 18~ 450kW. The whole series of engines can meet off-road CN III, CN IV, Stage 4/5 emission standards; on-oad CN VI, and on-road Euro III, Euro V and Euro VI emission standards.

The power range of the company's genset products covers 14~3190kW, and the frequency of the genset is 50Hz, 60Hz, 400Hz and so on. The output voltage of the generator sets ranges from DC48-65V, AC108V-13800V and so on.



SANY DEUTZ 's current main products are: Gensets and Engines

Genset :

SANY DEUTZ Genset covers 3 categories of products: diesel genset, gas genset and methanol genset, including open type, container type, silent box type, trailer type, vehicle-mounted type and so on.

Engine:

SANY DEUTZ engine products cover diesel engines (D series, M series, T series), gas engines (N series), hybrid engines (D, M series), hydrogen engines (H series) and so on.

WISDOM COMPANY

Intelligent power overall solution provider

1 Product Highlights

Container Type, Silent Box Type

Stable power generation performance
Compact structure, excellent workmanship, large power reserve, stable power generation performance.

High safety
Equipped with a full range of unit protection system and fault display system, easy to operate, to ensure the safety of man and machine.

Strong adaptability
The product is adapted to various application scenarios and high altitude areas.

Power range	14~3190kW
Voltage	400V、480V Voltage outputs are available for DC48-65V and AC108V-AC13800V.
Frequency	50Hz/60Hz
Application scenario	Theaters, hospitals, supermarkets, schools, public buildings, industrial and mining enterprises, telecommunications, finance, data centers, real estate, field engineering construction, airports and terminals, mines, oil fields, etc.





Stable power generation performance
Compact structure, excellent workmanship, large power reserve, stable power generation performance.

High safety
Equipped with a full range of unit protection system and fault display system, easy to operate, to ensure the safety of man and machine.

Strong adaptability
Highly efficient vibration damping system design absorbs more than 95% of the unit's vibration, significantly reducing the requirements for foundation. Multi-level protection class IP21-23 optional design, can adapt to different server room environment.

Power range	14~3190kW
Voltage	400V、480V Voltage outputs are available for DC48-65V and AC108V-AC13800V.
Frequency	50Hz/60Hz
Application scenario	Islands, remote rural areas, mining areas, pastoral areas, desert plateaus, workstations, post and telecommunications data centers, telecommunications, banks, public buildings, industrial and mining enterprises, telecommunications, finance, data centers, real estate, nuclear power plants, ultra-high-rise buildings, etc.

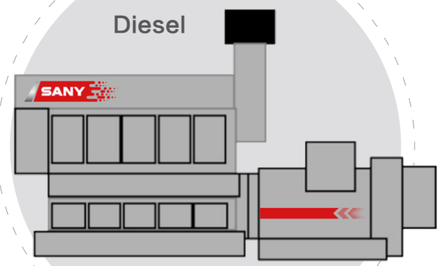
Three Product Categories

Diesel genset

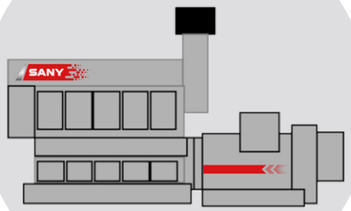
Gas genset

Methanol genset

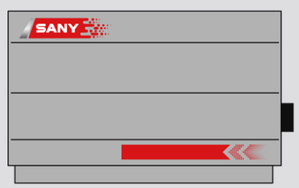
Diesel



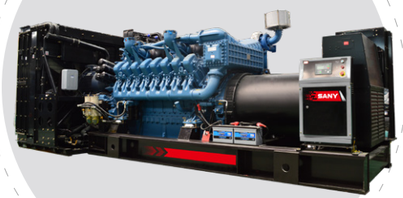
Gas



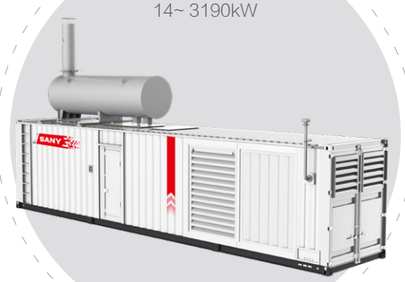
Methanol



Open type
14~3190kW



Container type
14~ 3190kW



Silent box type
14~1000kW



Trailer type
14~1200kW



Vehicle–mounted Type
14~1200kW



Five Product Types

Open type

Container type

Silent box type

Trailer type

Vehicle–mounted type

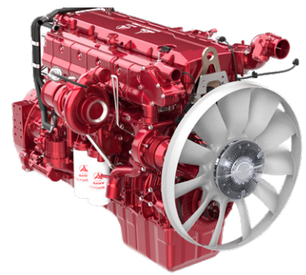
Eight Strengths

Highly efficient noise reduction
The use of special noise reduction and muffling materials and the optimization and combination of various noise reduction solutions through simulation greatly reduce the operating noise of the unit and reduce the impact on the surrounding environment.

Modular design
The modular design allows for a better fit to customer-specific needs and applications, as well as local regulatory requirements.

High efficiency alternator
The excitation system of the alternator adopts the most advanced solid-state automatic voltage regulator (AVR) or digital voltage regulation (DVR) .The windings are made of high-quality, high-temperature and high-voltage resistant enameled wires, insulating materials and insulating varnishes to ensure the reliability of the electrical appliances and insulation safety.

Top Brand Engines
Adopting the world's top brand engine, the most advanced fuel high-pressure common rail technology (for some models), in order to achieve the best fuel consumption rate.





Remote Monitoring Software



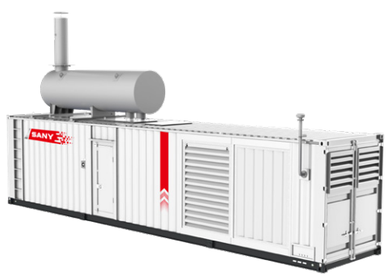
Network Products



Parallel system



Automatic changeover switches



Maximize benefits
Through the standardization of product design, parts and components are highly versatile, and better products are manufactured with lower material costs;

Short supply cycle, high reliability and long overhaul period;

Advanced fuel injection control system, strong power, low fuel consumption rate, low operating costs.

Control system
Adopt microprocessor as the core of the digital system, a variety of languages can be selected to achieve automatic control through the ATS connected to the power supply to realize the automatic switching between the utility power and backup power, but also to achieve a number of generator sets connected in parallel to further meet the demand for power supply of generator sets.

Reliable operation
Through three-dimensional construction, finite element simulation software for load bearing and vibration calculation of the unit and many long-time operation tests, the vibration of the unit is effectively reduced to ensure stable and reliable operation. The system can be self-started, self-switched and self-diagnosed, with cloud monitoring service platform and considerate maintenance reminder service.

Equipment safety
The control system and the host computer are connected by quick-connect aviation quick-plug, and the cable outlet is fastened by high-quality stuffing box, which is safer.



2 Technical Advantages

Integrated solutions

Provide integrated solutions for power supply for large projects;

Provide a full range of services such as design, manufacture, installation, commissioning and after-sales service for large-scale power stations;

Meeting different kinds of size requirements and satisfying customers' customized services in an all-round way.











SANY DEUTZ engine
+ standard Leroy Somer alternator (Stanford option)
+ standard DEIF (SmartGeni option)

- More specifications, full range, better fuel economy, power and reliability, long working life;
- Compact structure, excellent workmanship, large power reserve;
- Efficient cooling system, sufficient unit exhaust heat dissipation;
- Equipped with grounding protection, emergency stop button, quick socket, simple operation;
- Equipped with a full range of unit protection system and fault display system to ensure the safety of man and machine.

Optional Configurations

- Automatic switching, parallel system, grid-connected system and remote control system are optional.
- Battery float charger, water heater, oil heater, oil separator, output and input quick plug, independent fuel tank, diesel oil automatic replenishment device, lubricating oil automatic replenishment device, large-capacity fuel tank unit and other auxiliary equipment are optional;
- Trailer-mounted generator sets, vehicle-mounted generator sets, customized appearance structure generator sets are optional;
- IP44/IP55 high protection generator sets, C4/C5 high anti-corrosion grade generator sets, low noise generator sets, generator sets power station are optional;
- The generator sets can be used in the open air in various harsh environments such as mines, high temperature, deserts and the Gobi.

3 Products Spectrum

50Hz / 400V (Silent) Diesel Generator Set Model Series and Optional Configurations

Standard Conditions:
Ambient temperature 0-40° C, altitude 0-1,000m, relative humidity 60%
Voltage adjustable from 380 to 415V.

37 Power bands

Serial number	Silent generator set model	Generator set output information						Engine		
		ESP (kVA)	PRP (kVA)	ESP (kW)	PRP (kW)	Frequency (Hz)	Voltage (VAC)	Brand	Model	Emission
1	SYL0016DJ1	22	20	18	16	50	400	SANY DEUTZ	BFM3 G3	/
2	SYL0024DJ1	33	30	26	24	50	400	SANY DEUTZ	BFM3T G1	/
3	SYL0040DJ1	55	50	44	40	50	400	SANY DEUTZ	BFM3C G1	/
4	SYL0048DJ1	66	60	53	48	50	400	SANY DEUTZ	BF4M2012	/
5	SYL0060DJ1	83	75	66	60	50	400	SANY DEUTZ	BF4M2012C G1	/
6	SYL0072DJ1	99	90	79	72	50	400	SANY DEUTZ	BF4M2012C G2	/
7	SYL0080DJ1	110	100	88	80	50	400	SANY DEUTZ	BF4M1013EC G1	/
8	SYL0090DJ1	124	113	99	90	50	400	SANY DEUTZ	BF4M1013EC G2	/
9	SYL0100DJ1	138	125	110	100	50	400	SANY DEUTZ	BF4M1013FC	/
10	SYL0120DJ1	165	150	132	120	50	400	SANY DEUTZ	BF6M1013EC G1	/
11	SYL0144DJ1	198	180	158	144	50	400	SANY DEUTZ	BF6M1013EC G2	/
12	SYL0160DJ1	220	200	176	160	50	400	SANY DEUTZ	D07S3-293E1	China III Emission Standards
13	SYL0170DJ1	234	213	187	170	50	400	SANY DEUTZ	D07S3-293E1	China III Emission Standards
14	SYL0200DJ1	275	250	220	200	50	400	SANY DEUTZ	D09S3-320E0	China III Emission Standards
15	SYL0230DJ1	316	288	253	230	50	400	SANY DEUTZ	D09S3-320E0	China III Emission Standards
16	SYL0260DJ1	358	325	286	260	50	400	SANY DEUTZ	D12S3-517E1	China III Emission Standards
17	SYL0290DJ1	399	363	319	290	50	400	SANY DEUTZ	D12S3-517E1	China III Emission Standards
18	SYL0320DJ1	440	400	352	320	50	400	SANY DEUTZ	D13S3-560E0	China III Emission Standards
19	SYL0360DJ1	495	450	396	360	50	400	SANY DEUTZ	D13S3-560E0	China III Emission Standards
20	SYL0380DJ1	523	475	418	380	50	400	SANY DEUTZ	D13S3-560E0	China III Emission Standards
21	SYL0400DJ1	550	500	440	400	50	400	SANY DEUTZ	T131S3	China III Emission Standards
22	SYL0500DJ1	688	625	550	500	50	400	SANY DEUTZ	D17	/
23	SYL0560DJ1	770	700	616	560	50	400	SANY DEUTZ	D25	/
24	SYL0600DJ1	825	750	660	600	50	400	SANY DEUTZ	D25	/
25	SYL0640DJ1	880	800	704	640	50	400	SANY DEUTZ	D25	/
26	SYL0720DJ1	990	900	792	720	50	400	SANY DEUTZ	D25	/
27	SYL0800DC1	1100	1000	880	800	50	400	SANY DEUTZ	T131S3 (2 Set)	China III Emission Standards
28	SYL1000DC1	1375	1250	1100	1000	50	400	SANY DEUTZ	D17 (2 Set)	/
29	SYL1520DC1	2090	1900	1672	1520	50	400	SANY DEUTZ	D13S3-560E0 (4 Set)	China III Emission Standards
30	SYL1600DC1	2200	2000	1760	1600	50	400	SANY DEUTZ	T131S3 (4 Set)	China III Emission Standards
31	SYL1250DC1	1719	1563	1375	1250	50	400	SANY DEUTZ	D58S3T1E	/
32	SYL1500DC1	2063	1875	1650	1500	50	400	SANY DEUTZ	D58S3T1C	/
33	SYL1600DC1	2200	2000	1760	1600	50	400	SANY DEUTZ	D58S3T1B	/
34	SYL1800DC1	2475	2250	1980	1800	50	400	SANY DEUTZ	D76S3T2	/
35	SYL2000DC1	2750	2500	2200	2000	50	400	SANY DEUTZ	D76S3T1	/
36	SYL2200DC1	3000	2750	2400	2200	50	400	SANY DEUTZ	D76S3T3	/
37	SYL2400DC1	3250	3000	2600	2400	50	400	SANY DEUTZ	D76S3T1C	/

60Hz 400V (Silent) Diesel Generator Set Model Series and Optional Configurations

Serial number	Silent generator set model	Generator set output information						Engine		
		ESP (kVA)	PRP (kVA)	ESP (kW)	PRP (kW)	Frequency (Hz)	Voltage (VAC)	Brand	Model	Emission
1	SYL0020D6J1	27	25	22	20	60	400	SANY DEUTZ	BFM3 G3	/
2	SYL0032D6J1	44	40	35	32	60	400	SANY DEUTZ	BFM3T G1	/
3	SYL0048D6J1	66	60	53	48	60	400	SANY DEUTZ	BFM3C G1	/
4	SYL0056D6J1	77	70	62	56	60	400	SANY DEUTZ	BF4M2012	/
5	SYL0064D6J1	88	80	70	64	60	400	SANY DEUTZ	BF4M2012C G1	/
6	SYL0080D6J1	110	100	88	80	60	400	SANY DEUTZ	BF4M2012C G2	/
7	SYL0100D6J1	137	125	110	100	60	400	SANY DEUTZ	BF4M1013EC G2	/
8	SYL0128D6J1	176	160	141	128	60	400	SANY DEUTZ	BF6M1013EC G1	China III Emission Standards
9	SYL0160D6J1	220	200	176	160	60	400	SANY DEUTZ	BF6M1013EC G2	China III Emission Standards
10	SYL0180D6J1	248	225	198	180	60	400	SANY DEUTZ	D07S3-293E1	China III Emission Standards
11	SYL0190D6J1	261	238	209	190	60	400	SANY DEUTZ	D07S3-293E1	China III Emission Standards
12	SYL0200D6J1	275	250	220	200	60	400	SANY DEUTZ	D09S3-320E0	China III Emission Standards
13	SYL0263D6J1	362	329	289	263	60	400	SANY DEUTZ	D09S3-320E0	China III Emission Standards

Standard Conditions:

Ambient temperature 0-40° C, altitude 0-1,000m, relative humidity 60%

Voltage adjustable from 380 to 415V.

25 Power bands

Serial number	Silent generator set model	Generator set output information						Engine		
		ESP (kVA)	PRP (kVA)	ESP (kW)	PRP (kW)	Frequency (Hz)	Voltage (VAC)	Brand	Model	Emission
14	SYL0290D6J1	396	360	319	290	60	400	SANY DEUTZ	D12S3-517E1	China III Emission Standards
15	SYL0310D6J1	426	388	341	310	60	400	SANY DEUTZ	D12S3-517E1	China III Emission Standards
16	SYL0360D6J1	495	450	396	360	60	400	SANY DEUTZ	D13S3-560E0	China III Emission Standards
17	SYL0400D6J1	550	500	440	400	60	400	SANY DEUTZ	T131S3	China III Emission Standards
18	SYL0500D6J1	688	625	550	500	60	400	SANY DEUTZ	D17	/
19	SYL0560D6J1	770	700	616	560	60	400	SANY DEUTZ	D25	/
20	SYL0600D6J1	825	750	660	600	60	400	SANY DEUTZ	D25	/
21	SYL0640D6J1	880	800	704	640	60	400	SANY DEUTZ	D25	/
22	SYL0720D6J1	990	900	792	720	60	400	SANY DEUTZ	D25	/
23	SYL0800D6C1	1100	1000	880	800	60	400	SANY DEUTZ	T131S3 (2 Set)	China III Emission Standards
24	SYL1000D6C1	1375	1250	1100	1000	60	400	SANY DEUTZ	D17 (2 Set)	/
25	SYL1600D6C1	2200	2000	1760	1600	60	400	SANY DEUTZ	T131S3 (4 Set)	China III Emission Standards

INNOVATION

APPLICATION

Intelligent power overall solution provider

1 Application Scenarios



Industrial Manufacturing

Factory Backup Power

Ensure uninterrupted production and avoid losses



Vehicle Power Equipment

Meeting safety and energy efficiency requirements



Mining equipment

Ensuring safe operation of mining equipment



Residential district

Emergency Backup Power

Bringing security to residential neighborhoods



Emergency Communications

Enhancing communications efficiency



Trailer Power

Enhancement of the quality of life of the residents by providing a pleasant environment in the residential neighborhoods



Public facilities

Healthcare

Providing high quality medical electricity



Education and Research

Securing electricity support for Scientific Research



Transportation

Securing transportation power to ensure smooth flow



2 Global Application Cases

SANY generator sets are exported to Southeast Asia, the Middle East, Africa, Central Asia, Australia, Latin America, and other regions, covering over 60 countries, with single-unit power ranges from 4.5kW to 3,500kW.



Indonesia / Mine Power

- 24/7 power for battery-swapping stations.




Indonesia / Island Power Station

- 19.5MW total, grid-connected.




Saudi Arabia / Mining Power

- 10MW total, long-term mine power.




Saudi Arabia / Oil Field

- Power for oil extraction.





Kuwait / Oil Field

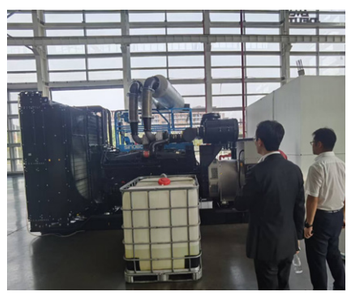
- Power for oil extraction.





Thailand / Factory Backup

- Open-type units, factory backup.


Vietnam / Factory Backup

- With storage + solar PV as microgrid, factory backup.





Uzbekistan / Office Backup

- Backup for SANY office.





Ethiopia / Office Backup

- Office backup power.





Indonesia / Repair Shop Backup

- Backup for 3 repair shops (SANY PERKASA).





Philippines / Factory Backup

- With paralleling + ATS, factory backup.





Hong Kong / Construction Rental

- Power for construction sites.





REASSURANCE

SERVICE

Intelligent power overall solution provider

Service Philosophy

Worry-Free Service

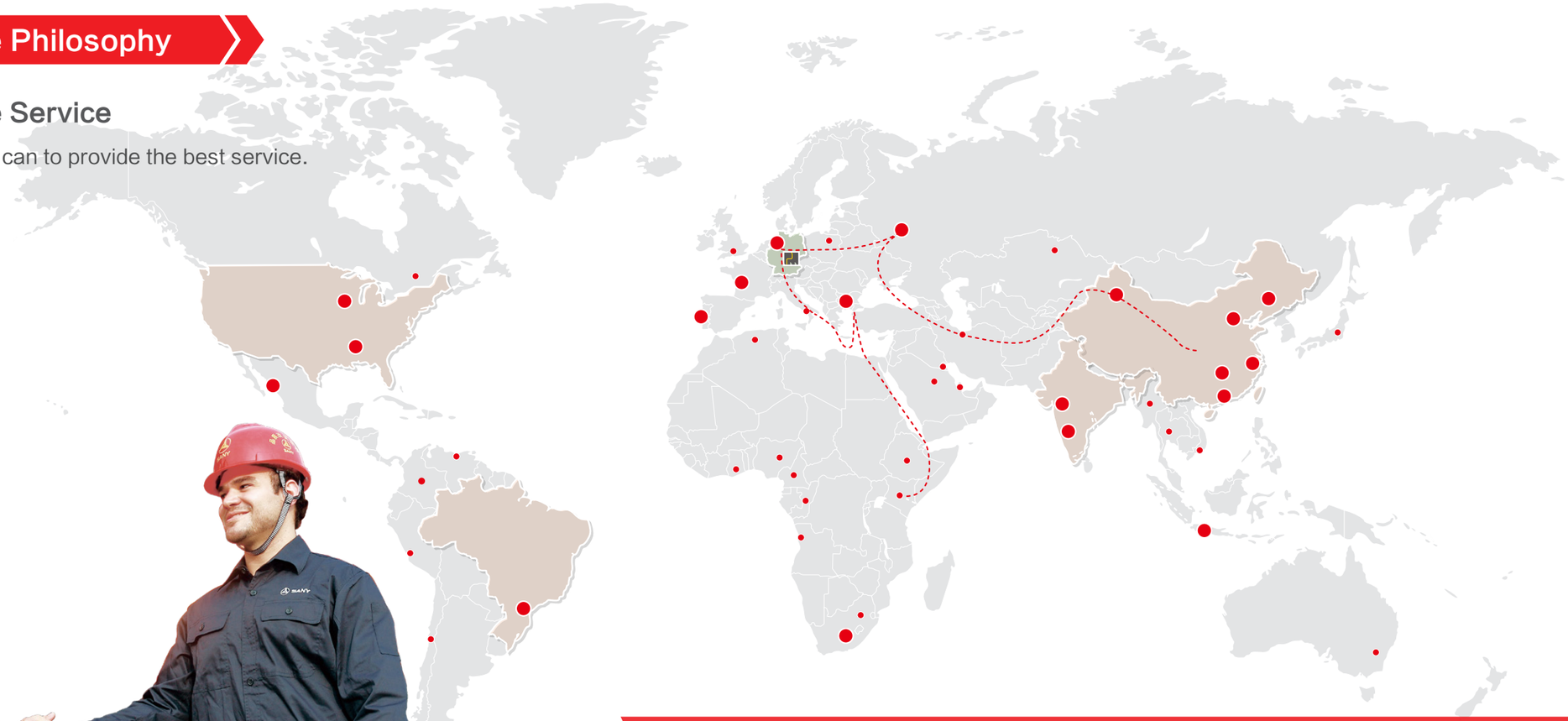
Do whatever we can to provide the best service.



Service policy

Product Warranty

The generator set provides 1 year (or 1000 hours of operation) free warranty service, including the whole generator set warranty. If the warranty period is exceeded, we can provide lifelong paid service.



Service Network

SANY service network has spread all over the world, with more than 1,700 service centers and 7,000 technical service personnel, which can realize 365x24-hour full-time service.

1700+
1700 service centers

7000+
Technical service personnel

24h
365x24 Full-time service

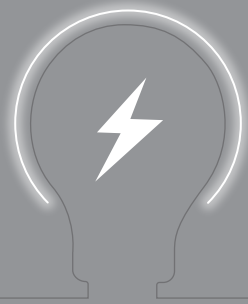
DISCOVERY

FUTURE

Intelligent power overall solution provider

Unlimited Empowerment

Provide customers with complete solutions for generator sets and power system solutions



Intelligent Power Overall Solution Provider

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www.sanygroup.com

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