

GENPOWER

Genpower Generator, which started its activities in Ankara OSB in 2001, has been providing service to meet all your energy needs since its establishment. It continues to offer the most reliable form of uninterrupted energy to its solution partners for 21 years through its state-of-the-art products. This way which was started with "Our standard is high!" motto, it offers a performance approved by the authorities, whose reliability has been proven with the quality-control certificates it has, and opens the doors of uninterrupted energy.



GENPOWER

In this way, its products are in high demand in the domestic and foreign markets, and it continues to be the representative of many companies related to the sector. It has a wide import network of up to 120 countries with a 100% domestic and national production approach. Moreover, it has the feature of being the "world's largest generator factory" with its factory built on a 216,000 m² land and with a 51,000 m² closed area! It is one of the leading manufacturers in Turkey and the world, with its state-of-the-art production system and a generator production capacity of 60,000 units/year in its current factory environment.

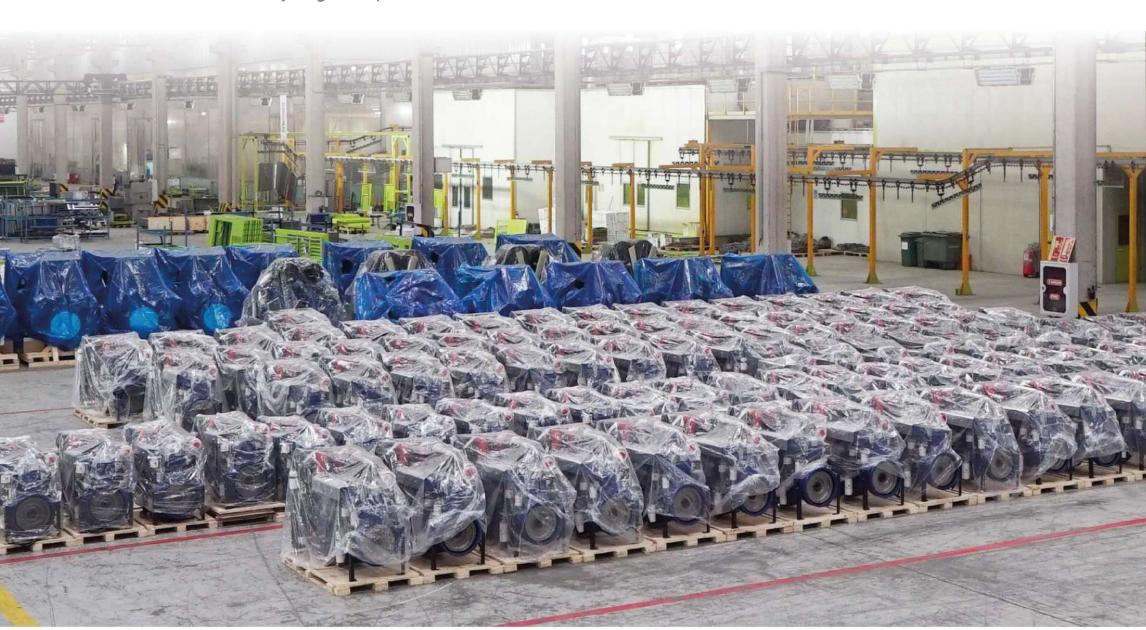
PRODUCTION BAND

All products with the Genpower label are produced in state-of-the-art machines. All electronic and mechanical connections are made with the production stations on the bands, thus, all products are combined in a controlled manner at every step. 2 automatic and 1 manual production lines operate with an annual production capacity of 60,000 generators. Products are sent directly to the test room and their controls are provided after progress on the production lines. In this way, the production journey is completed in the factory after the quality control tests of each product are also done.



STOCK AREA

The desired products are delivered in a minimum time thanks to the stock area with a wide range of products. All products in stock are checked and ready to go into production.



SPARE PART WAREHOUSE

A 2-year product warranty is provided for all generators sold, and a spare part supply warranty is offered for 10 years. All the parts needed are provided in a minimum time and solutions are offered as soon as possible for possible problems thanks to the spare parts warehouse.



TEST ROOMS

All products bearing the Genpower signature must pass all durability tests successfully in order to be guaranteed of maximum quality. Therefore 8 products are tested at the same time in 8 test rooms. Operations carried out on machines with extensive equipment and calibration certificates are tested at 50%, 75%, 100% and 110% load. All test processes are made publicly to customers, and test reports of the products sold are sent along with them.



STEEL SHEET PRODUCTION

All cutting, dividing, joining, etc. operations with special machines are made in steel sheet production plant. All stages of canopy production are carried out in the facilities, and production is provided according to demand for special projects.



PAINT HOUSE

Production is made with Pantone coded color specific to Genpower and electrostatic powder paint is used. In addition, different colors can be produced without human touch in fully automated systems in line with demand.



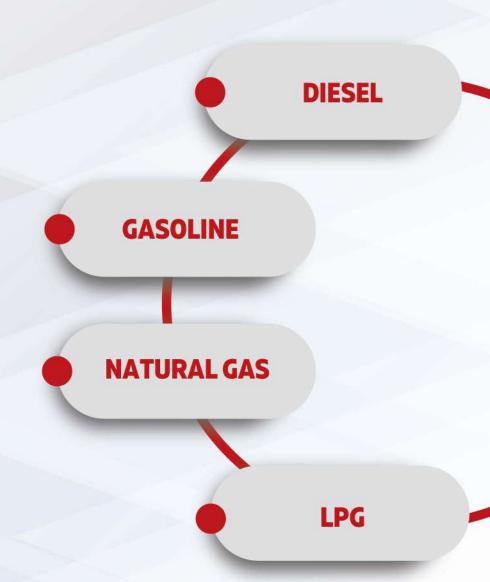


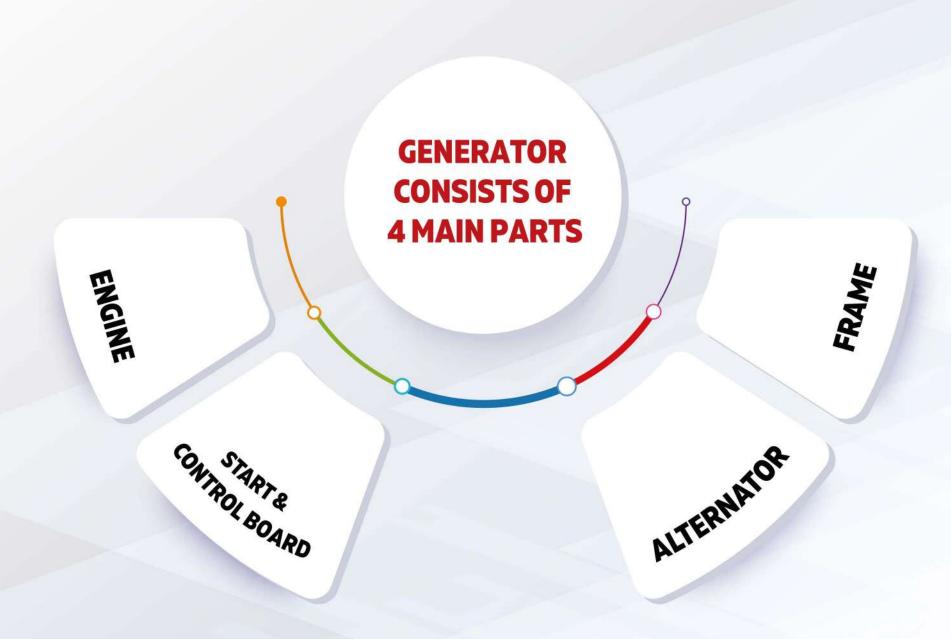
Generators are electrical machines that transforms mechanical energy into electrical energy. It works according to the principle of creating an electromotive force by induction in a conductor rotating in a magnetic field.

It is a collection of electromechanical systems that transforms chemical energy into heat energy, heat energy into mechanical energy, and mechanical energy into electrical energy with the fuel it takes. In other words, it can also be called a machine that transforms mechanical energy into electrical energy through a steam engine, water, internal combustion engine, wind turbine or such a system. When viewed as a working principle, generators work just like electric motors. The only difference is that it works in reverse. Generators are equipped with parts that provide electric current source. These parts are, in general terms, the engine and alternators. All these systems have become indispensable for uninterrupted energy today. These structures of generators act as a continuous power source in cases where grid energy is not available in any way.

Generated electrical energy can be used in commercial establishments, industry and homes.

For example, portable generators are practical for outdoor leisure activities. On the other hand, generators are very important especially for contractors and workers working in construction sites where there is no electricity. A standby generator can be a good investment for people living in areas with severe climates or weather conditions. It is possible to separate generators according to fuel types:





GENERATOR, ENGINE AND ALTERNATOR

ENGINE:

Diesel engines:

They are internal combustion and 4-stroke like gasoline engines. It differs from gasoline engines in terms of its main working principle. The air filled into the cylinder is highly compressed by the pistons. This ratio is quite high compared to gasoline engines. The compressed air reaches a temperature of 500 degrees Celsius under high pressure. At this time, the fuel injected into the cylinder ignites and an explosion occurs. The mixture delivered by the piston is ignited by the spark plug and an explosion occurs.

Gasoline engines:

Gasoline engines with internal combustion and 4-stroke operating system reach the combustion chamber by mixing fuel (gasoline) and air in the carburettor. Here, an explosion occurs when the mixture compressed by the piston is ignited by the spark plug.

4 STROKE ENGINE WORKING PRINCIPLE

4-stroke engines are engine types in which one cycle of the piston is completed in 4 stages (4-stroke cycle). They are in the class of internal combustion engines (internal combustion engines). Power generation in engines first occurs when the chemical energy in the fuel is converted into heat energy, and then this heat energy activates the piston. This process is as follows in four stroke engine:



01

The fuel and air mixture is filled with the outward movement of the piston.

02

The mixture is compressed by the piston moving in.

03

The compressed mixture is ignited by a spark in gasoline engines, while in diesel engines, it ignites spontaneously under high pressure and temperature and combustion takes place. The piston is pushed out with the energy released as a result of combustion. In this way, the crankshaft is rotated and kinetic energy is obtained.

04

During the return of the piston, the exhaust valve is open and the exhaust gases are discharged from the piston. The cycle thus comes to its starting position and the operations are repeated from step $\bf 1$.

These types of engines are called 4-stroke engines because the engine completes one cycle in the 4 stages described above. In a moving gasoline vehicle, this cycle is repeated an average of 3000-3500 times per minute, and 1500 (adjustable) times in diesel engines. 4-stroke engines, which are more efficient than 2-stroke engines, are the most used internal combustion engine type today.

VTYPE

INLINE TYPE AND V TYPE ENGINE

It is the type of engine in which the cylinders are lined up on the crankshaft. V-engine, type of engine in which the cylinders are arranged in two rows in a "V" shape on the crankshaft. This type of engines, which have a higher power/volume ratio than inline type engines, are used in applications where relatively high performance is required.









An electrical machine that transforms the energy of motion transformed by a converter machine into electrical energy. Alternators are alternating current generators. It is generally used in places where electrical energy cannot be supplied from the grid.

Alternator can be used with various inverters such as water turbines, wind, diesel engine. Diesel engine driven alternators are commonly used as mains standby. In most places where electricity is needed, the new form of alternators used in this type of field by being driven by a diesel engine is called a generator.

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CANOPY TECHNOLOGY



Ensures 60-70 dB sound isolation at 7 mt. distance.



Ensures maximum heat isolation.



Canopy colors can be changed upon request. (RAL)



TEMPERATURE TESTS
SUITABLE FOR ALL
ENVIRONMENTS

ROBOTIC PAINTING WITH ELECTROSTATIC POWDER PAINT

*Super silent canopy technology is specially produced according to your request.







PRODUCT SERIES



GNT SERIES 11-3300 kVA



GDZ SERIES 30-263 kVA



GCC SERIES 28-2250 kVA



GPR SERIES 10-2500 kVA





11 - 3300 kVA



10 - 2500 kVA



28 - 2250 kVA

GNT SERIES

GPR SERIES

GCC SERIES



26-300 kVA

GDZ SERIES





PORTABLE GENERATORS

Portable generators are rather small in size compared to canopy generators. Therefore, it can be used in many different areas according to the need. It offers advantages with its portable structure wherever you need to use unlimited electrical energy. At home, in the hobby garden, at the campsite or at the cottage...

GASOLINE DIESEL

GBG SERIES 0.8 - 14 kVA

GDG SERIES 7 - 17 kVA





WATER PUMPS

Diesel

GDP Series

Gasoline

GBP Series



WELDING MACHINES

Diesel

GDW Series

GasolineGBW Series







Hybrid systems allow the use of diesel generator systems in addition to wind and solar energy, while preventing continuous energy and unnecessary solar or wind energy installation. They have the feature of providing an efficient, environment–friendly and combined use since these systems enable the use of renewable energy sources in generators as well.



OTHER PRODUCTS

Genpower Generator evaluates the special projects of its customers together with both its sales and technical team, and aims to respond with the most efficient solutions suitable for the working conditions of the products in the project, whether requested or not. It utilizes from its technological and technical experience, which has been revealed and developed in various conditions (climate, distance, lack of resources, etc.) encountered in the geographies where the products have been exported for years in project evaluation. Such as special canopies, special colors, trailer generators, mobile generators, power support unit.



SYNCHRONOUS SYSTEMS

Form of application implementation of the synchronous system is created according to customer needs. Scenarios from the customer, the nature of the synchronous system, feature, etc. can change many parameters.

Sync options:

BASIC SYNC
AND GRID SYNC
LOAD RELEASE
SYNCHRONIZATION
GENERATORS

SYNCHRONIZATION
GENERATORS



QUALITY DOCUMENTS AND CERTIFICATES

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CE Certificate EN ISO 17050-1:2004



Trade registry certificate - Certificate No: 2008 05576 - Trade

TURK PATENT



Seismic test certificate - AZ



TSE Service - Certificate No: 06-HYB-40



ISO 9001-2015 Certificate No: QMS-05207



TSE-8528-8 - Certificate No: 003560-TSE-01/01



ISO 14001-2015 Certificate No: EMS-05207



ISO 45001:2018 Certificate No: OHS-02236



TSE-8528-4 - Certificate No: 003560-TSE-02/02



TSE-8528-5 - Certificate No: 003560-TSE-03/07



TS EN 60034-1-Certificate No: 003560-TSE-04/01



Manufacturing Competence Certificate - Document No: 4/505709



SSHYB - Certificate No: 57353



EAC Technical Regulation Certificate- Gasoline



EAC Technical Regulation Certificate- Diesel



Capacity report - 2021 / 876



Industry register certificate- 592616

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