

AGREGAT
PRĄDOTWORCZY
CATERPILLAR 1400KVA



CAT® 9.5-4000 KVA DIESEL GENERATOR SETS

ENERGY IS OUR PASSION

– we are fascinated by its power, potential and scale.

Even the boldest plan and investment project needs a partner to be the driving force behind it. We understand it better than anyone. We think about it every day, and for more than 25 years we have been powering people and businesses. With Caterpillar generator sets, we provide energy security for manufacturing plants, hospitals, server rooms and strategic facilities.

CATERPILLAR

The world's leading manufacturer of power systems, supplying generator sets to customers around the world for over 90 years. Caterpillar has installed more than half a million generator sets with an output of more than 300 kW and more than one million generator sets with an output of less than 300 kW. The total generating fleet installed by Caterpillar is approximately 1,300,000 MW.

- More than **90 years** of engine manufacturing experience
- **The world's largest manufacturer** of medium- and high-speed engines
- **The global leader** in gas engine manufacturing
- Globally recognised brand

ENERIA

The exclusive representative of Caterpillar in Poland, France, Belgium, Romania and Algeria, a member of Groupe Monnoyeur of France, which has worked with CAT[®] for over 100 years. Eneria has been present in Poland since 1998, and provides a wide range of generator sets and engineering and design services.

- **Exclusive representative of CATERPILLAR** in Poland
- Present on the Polish market for over **27 years**
- A member of the French **Monnoyeur** group, which has been cooperating with **CATERPILLAR** since its foundation
- A company with its own **design engineering studio** and a team of **engineers**

We offer our customers comprehensive support at every stage of the investment process, from initial analysis to system design, equipment installation, after-sales service and financing. Your satisfaction is guaranteed by the combination of proven equipment and professional support:

QUALITY

Caterpillar was the first generator manufacturer to offer its own product and comprehensive technical support. This was made possible by a network of reliable local representatives. This has not changed to this day: the highest quality products manufactured in **Caterpillar** factories are backed by comprehensive support from specialised representatives such as Eneria. The combination of the latest technology and impeccable service guarantees optimisation of your profits.

POWER GENERATOR

Caterpillar's brushless alternators can operate in all conditions, even the most demanding. They are designed to work with specific engines. As a result, they guarantee unparalleled harmony of operation of the whole set.

PRODUCTS OFFERED

Complete range from 9.5 to 4,000 kVA

FROM A SMALL DIESEL GENERATOR SET TO A COMPLETE POWER SYSTEM

The world of **CAT®** products has the **right model** to power your facility, while Eneria experts will make your choice easier with special support programmes, such as **CAT® Spec Sizer**.



ENGINE

A generator set is powered by the **Caterpillar** engine, recognised by professionals around the world. The path to perfection has been paved by a wide range of applications, including various **Caterpillar** construction machines. This synergy ensures durability, cost savings and low emissions.

RELIABILITY

Caterpillar sets are made up of carefully selected and perfectly matched components, which means high efficiency. Before purchase, each machine is subjected to a series of rigorous tests. Specialists evaluate each component separately: first the engine, then the alternator, and finally the entire generating set is tested on the test bench. All this ensures that the generating set will work efficiently and reliably.

GENSETS CAT®

- Available in the full range from 9.5 to 4,000 kVA
- Rigorously tested under full load at **Caterpillar** manufacturing facilities. ISO9001 and ISO14001 certified to ensure all your power needs are met.
- Meet or exceed the requirements of the **ICE60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, 2014/30/UE, 2006/42/EC and 2014/35/UE** standards.
- Designed to withstand **heavy duty** operation (even if used occasionally).
- Come with **extensive standard equipment** and a **wide range of extras** to meet the needs of your project.
- Backed by the **CAT® International Warranty** that guarantees **professional maintenance service**, even at the other end of the world.
- With attractive service contracts and options to extend the warranty (**CAT® Extended Service Coverage**) up to 10 years.
- With **full project and implementation support** from Eneria.

All **CAT®** generator set models can be installed in a building. Eneria's specialists provide full design support for your installations. If you do not have free space in your building or a place for temporary power supply, a generator set in a factory housing is the best choice. This configuration means high economic efficiency of your investment. If the operation of the unit needs to be adapted to your specific needs or conditions, you can choose a container installation, which allows you to **adapt the generator set to your specific requirements**.



CAT® FACTORY INSTALLED ENCLOSURES CONTAINERS

- Meet noise standards in accordance with EU Directive 2000/14/EC.
- Are weatherproof.
- Can be used immediately after installation, perfect if you need to separate a room for the generator set, if you plan to move the generator set or sell it in the future.
- Fitted with steel fuel tanks which guarantee 8 hours autonomous operation at 100% load.
- Can be mounted on approved trolleys.

- Offered for different noise level requirements, as quiet as 55dB(A) at 1 m.
- Designed by Eneria's own design engineering studio and based on proprietary solutions.
- Designed for the most demanding customers. The module can be adapted to the customer's requirements in terms of dimensions, noise or fuel autonomy.



RANGE OF CAT® GENERATOR SETS

9.5 - 330 kVA (7,6 – 264 kW)



DE Series

- CAT® generator sets with C1.1 – C9 engine
- High combustion efficiency and low maintenance costs.
- Standard robust underframe fuel tanks provide 8 hours continuous operation at 100% load.
- Heavy-duty enclosures reduce noise in accordance with Directive 2000/14/EC and are fully weatherproof.
- Enclosed generator sets are ready for use immediately after delivery to the site and connection of cables.
- Also available in non-enclosed versions for indoor installation.

400 – 850 kVA (320 – 680 kW)



C Series

- A range of C Series generator sets with C13, C15 and C18 6-cylinder CAT® engines.
- Electronically controlled fuel injection with precise fuel metering and fast response to load variations.
- Stable operation even in the most demanding applications.
- Available in enclosed (compliant with Directive 2000/14/EC) and non-enclosed models for indoor installation.
- Can be built into and installed in containers.
- Systems available for synchronisation with the grid and other generator sets.

800 – 900 kVA (649 – 720 kW)



3400 Series

- A range equipped with 12-cylinder 3412 Series CAT® engines.
- Simple design for high reliability, even in the most demanding applications.
- Available in enclosed versions in accordance with Directive 2000/14/EC to ensure excellent economy of installations.
- Non-enclosed versions available.
- Energia provides full design and installation support.
- Can be installed in containers.
- Systems for synchronisation with mains and other generator sets.

1100 – 1500 kVA (880 – 1200 kW)



C32 Series

- A range equipped with CAT® C32 12-cylinder AGERTM engines.
- AGERTM Air governor provides fast parameter stabilisation for the most demanding applications.
- Non-enclosed versions for indoor installation.
- Energia provides full support for installation designs.
- Container enclosures to special order.
- Systems available for synchronisation with the grid and other generator sets.

FULL RANGE OF POWER FOR YOUR PROJECT

1400 – 3500 kVA (1120 – 2400 kW)



3500 Series

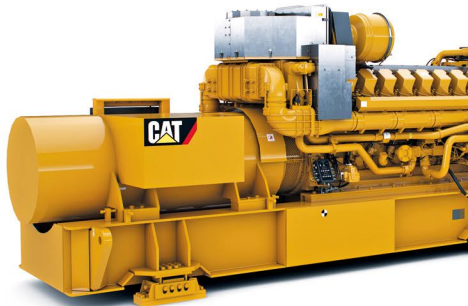
- A range of 12- and 16-cylinder CAT® 3512 and 3516 engines.
- High performance with excellent fuel economy and moderate power-to-weight ratio.
- Reliable, robust and durable CAT® engine and generator package.
- Can be switched to 100% rated load in a single step.
- Non-enclosed versions for indoor installation.
- Energia provides full support for installation designs.
- Can be built into customised containers.
- Available systems of synchronisation with mains and other generator sets.
- Available with 0.4 – 11 kV current generators.

3000 – 4000 kVA (2400 – 3200 kW)



C175 Series

- Modern CAT® C175 16- and 20-cylinder engine.
- Largest generator unit in the world.
- 3.3 – 11 kV medium voltage versions available.
- Energia provides full support in indoor installation designs in rooms or special purpose buildings.
- Available in mission critical standby configuration supporting Uptime Institute Tier IV certification.
- Highest reliability – simplicity and effectiveness of the power system with the highest power available from a single generator set.



GC SERIES GENERATOR SETS FOR STANDBY OPERATION, 33 - 1500 KVA

CAT® GC SERIES are designed to reduce the costs of transport and installations, save installation space, but first of all to reduce the operating costs.

The generators are not only attractively priced, but also robust and reliable. Standby stationary generator sets with CAT® GC Diesel engines are available in the 33 – 1500 kVA range.

CAT® GC RANGE

| ENGINE | MODEL | STANDBY OPERATION |
|--------|----------------------------------------------|---------------------|
| C3.3 | DE33 GC, DE50 GC DE55 GC, DE65 GC | 33 kVA - 65 kVA |
| C4.4 | DE88 GC, DE110 GC | 88 kVA - 110 kVA |
| C7.1 | DE150 GC, DE165 GC DE200 GC, DE220 GC | 150 kVA - 220 kVA |
| C9.3B | DE400 GC | 400 kVA |
| C13 | DE450 GC, DE500 GC DE550 GC | 450 kVA - 550 kVA |
| C15 | DE605 GC, DE660 GC DE715 GC | 605 kVA - 715 kVA |
| C32 | DE1100 GC, DE1250 GC DE1400 GC, DE1500 GC | 1100 kVA - 1500 kVA |



33-220 kVA

400-715 kVA

1100-1500 kVA

Standby stationary generator units with CAT® GC Diesel engines are available in the 33 – 1500 kVA range.

Designed for a wide range of industrial applications in manufacturing plants, agricultural facilities, municipal infrastructure, wastewater treatment plants, clinics and other public utilities, distribution companies and office buildings.

Equipped with CAT® 12-cylinder engines, with the ADEMA governor from C3.3 to C32, offer high power and low fuel consumption.

Optimal power source for larger processing plants, large poultry farms, large format cold stores and warehouses.

In addition to attractive pricing, the GC Series offers a compact frame, CAT® GCCP automatic power failure control panel with 50 event log, up to 110% spill containment for fuel or refrigerant, intelligent water heater and timer control, sound-insulated enclosures designed for maximum protection from the elements, and a large door for service access.



XQP GENERATOR SETS – STAGE V COMPLIANT

The new EU STAGE V compliant CAT® diesel engine powered XQP generating sets are the most advanced on the European market. XQP generating sets are specifically designed for the rental market and the most demanding customers.

Designed by Caterpillar engineers, CAT® engine generator sets are equipped with an exhaust gas treatment system that guarantees a significant reduction in carbon dioxide emissions compared to existing technologies.

CAT® XQP20 generator set
Power rating: 20 kVA/16 kW
Engine: CAT® C2.2
Voltage: 230/400 V
Frequency: 50/60 Hz
Dimensions: 1001 (W) x 1718 (L) x 1300 (H) mm
Weight*: 815 kg
Fuel consumption** : 4 (l/h)
Fuel tank capacity: 56 l



CAT® XQP115 generator set
Power rating: 115 kVA/92 kW
Engine: CAT® C4.4
Voltage: 230/400 V
Frequency: 50/60 Hz
Dimensions: 1150 (W) x 2970 (L) x 2076 (H) mm
Weight*: 2077 kg
Fuel consumption** : 20.4 (l/h)
Fuel tank capacity: 518 l

CAT® XQP200 generator set
Power rating: 200 kVA/160 kW
Engine: CAT® C7.1
Voltage: 230/400 V
Frequency: 50/60 Hz
Dimensions: 1420 (W) x 4085 (L) x 2350 (H) mm
Weight*: 3651 kg
Fuel consumption** : 32.4 (l/h)
Fuel tank capacity: 822 l



CAT® XQP310 generator set
Power rating: 310 kVA/248 kW
Engine: CAT® C9.3
Voltage: 230/400 V
Frequency: 50/60 Hz
Dimensions: 1514 (W) x 4085 (L) x 2277 (H) mm
Weight*: 4103 kg
Fuel consumption** : 50 (l/h)
Fuel tank capacity: 667 l

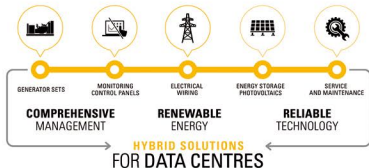
CAT® XQP550 generator set
Power rating: 550 kVA/440 kW
Engine: CAT® C18
Voltage: 230/400 V
Frequency: 50/60 Hz
Dimensions: 2040 (W) x 5420 (L) x 2434 (H) mm
Weight*: 6740 kg
Fuel consumption** : 94.5 (l/h)
Fuel tank capacity: 1125 l



* Incl. fluids ** 75% load (50Hz)

COMPREHENSIVE SOLUTIONS FOR DATA CENTRES

We successfully implement standby power and electrical cabling projects for all your power requirements. We understand the importance of time and comprehensive service in data centre projects. **We support you** from the time you identify your needs, through the selection of the best solutions, the preparation of the concept, design and installation documentation, to the monitoring of the correct operation to meet the extreme requirements of the facility's power supply.



GENERATOR SETS FOR DATA CENTRES

We offer a wide range of products. Our generator sets offer a range of options to reduce emissions and digital solutions to improve operation and service.

Whatever the size, power or location of the generating set, we select the right **CAT®** generator set and design our own installations for the most demanding customers.



EXTRA FEATURES

The generator set can be fully customised

CONTROL PANEL

A complete range of advanced EMCP panels from the simplest to those supporting Modbus, Ethernet and synchronisation.



SYNCHRONISATION

Solutions for common island operation of multiple generator sets, parallel operation with the mains, peak shaving.



MONITORING SYSTEMS

Simple and fully featured monitoring and remote control systems, with CAT®Connect application that supports on-line monitoring of the location of the equipment and its operating parameters.



ATS

(AUTOMATIC TRANSFER SWITCHING)

A complete range of standard and special ATS systems.



CURRENT GENERATORS

A wide range of current generators, from standard 400 V to special order mid-voltage up to 11 kV.



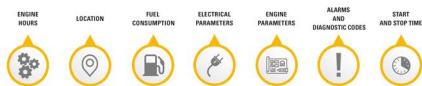
SPECIAL INSTALLATIONS

Tropical and Arctic designs to order, including special container solutions.



CAT® PRODUCT LINK – REMOTE MONITORING

CAT® Product Link is a wireless remote monitoring and productivity management solution for your power and transport equipment. With intuitive, industry-specific online applications, you can access all key parameters in real time, anywhere, anytime:



PRODUCT LINK AND MONITORING FEATURES:

- Permanent access to the location, information on fuel consumption and generator set use and load.
- Monitoring of the engine condition and working time to plan inspections and limit any downtime.
- Control and maintenance of emission standards at the optimum levels.
- Generator set is always ready to work/start.
- Communication via mobile, satellite or Bluetooth connections.
- Remote software update (optional).
- Extended equipment life.
- Easy installation and integration – system communication takes just a few simple steps. Product Link can be installed on any manufacturer's hardware, once configured Product Link works with CAT® mobile and online apps.
- Your data is safe, protected by the highest privacy standards and multi-layered security checks and measures to protect you from unauthorised access and data leakage.



WE PROVIDE POWER

Energy security for your facility



9,4 – 850 kVA

Offices, shops, hotels, B&Bs, farms, food and agricultural processing plants, residential units. Larger stores, factories, energy and pharmaceutical sector, large processing plants, hotels, office buildings and smaller server rooms.



850 – 1500 kVA

Gravel pits, drilling rigs, shopping centres, logistics centres, manufacturing plants and all installations with heavy motor loads. Loads particularly sensitive to voltage and frequency fluctuations, intelligent buildings, factories with computerised production processes and server rooms.



1400 – 4000 kVA

Largest loads, airports, shopping centres, office and commercial buildings, stadia and large factories. The most demanding customers, including server rooms, hospitals, energy and strategic facilities that require full power protection.

CSA CUSTOMER SERVICE AGREEMENTS

Eneria is an authorised **Caterpillar®** dealer for the sale, maintenance and repair of engines and generator sets, providing technical advice and full project support facilities. Our **specialised technical staff** offers a wide range of comprehensive services for delivery, installation and commissioning, with a lifetime warranty for your generating set. In response to our customers' expectations, we **propose CSAs that are individually negotiated and verified to meet your needs**. These agreements ensure the continuity of the machines and the optimisation of operating costs.

TYPES OF AGREEMENTS:

TECHNICAL MAINTENANCE

(INCLUDING LONG-TERM) FRAMEWORK AGREEMENTS

- CVA, Customer Value Agreement, **for inspections, with a monitoring option***
- TM&R, Total Maintenance & Repair, **for repairs and inspections, with a monitoring option***
- * Option individually agreed based on Caterpillar products (Product Link®) or third party monitoring.

SPARE PARTS SUPPLY AGREEMENT

(PARTS KIT)

- Customised dedicated **operating bundles**
- Customised dedicated **repair bundles**

REPAIR AGREEMENTS

- Repair agreements **including certified reconditioning, overhaul or engine or component replacement under the CAT Reman® programme**

You can choose the bundle that **best suits your business needs** and your current finances. We can also offer other services, the nature and scope of which **can be agreed on an individual basis**.

Remote Monitoring supports the continuous monitoring of operating parameters of (machine) generator sets and gas co-generation generator sets and **Caterpillar** engines fitted in the machinery and equipment, to identify unwanted events. This information can be used to identify the problem and procure the necessary parts for repair before the service team arrives.

BENEFITS OF THE AGREEMENT

UP TO **50%**
LONGER ENGINE
COMPONENT LIFE
WITH CAT FILTERS

UP TO **2X**
THE LIFE OF YOUR ENGINE
WITH CAT OILS

UP TO **80%**
LOWER HOURLY
INJECTOR WEAR COST
WITH CAT FILTERS

WE CARE ABOUT YOUR BUSINESS



CAT® GENERATOR SETS

Reliable power supply with unrivalled support

At Eneria and Caterpillar, we are committed to providing you with comprehensive service at every stage of project implementation. Our design office is one of our greatest assets. Our **experienced specialists will help you** choose the right power system and customise it to your needs and requirements. Our extensive installation department guarantees **fast and safe installation of your generator set**, and our **qualified service technicians** provide after-sales service and maintenance.

OFFICE AND SALES DEPARTMENT

Experienced engineers. Sales engineers trained by CAT®

- DESIGN CONCEPTS
- GENERATOR UNIT SELECTION
- ARRANGEMENTS
- DETAILED DESIGNS
- CUSTOMISED QUOTATIONS

IMPLEMENTATION DEPARTMENT

Trained commissioning engineers. Experienced contract managers.

- DELIVERY AND COMMISSIONING
- SUPPORTING INSTALLATIONS
- ACCEPTANCE AND TESTING

SERVICE DEPARTMENT

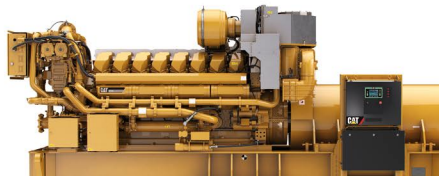
CAT® Service Centre. Highly qualified technicians.

- MAINTENANCE SUPPORT
- SERVICE AGREEMENTS
- EXTENDED WARRANTY
- HOT-LINE
- ON-CALL SERVICE

FINANCING

CAT®Financial: your trusted partner for Caterpillar purchases.

- OPERATING LEASE
- FINANCIAL LEASE



Get in touch with us and see what can you gain from choosing Eneria solutions.

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