



GRUPEL GENERATORS

www.grupel.eu



**PRODUCING ENERGY
FOR MORE THAN
40 YEARS**

We take energy all over the world with the help of more than 40 years of experience in the production and commercialization of generators.

Grupel started its activity in 1976, producing and selling a wide range of energy generators (open or soundproofed), from 3 to 3500kVA, and equipped with components of the best quality.

We have more than 24,000 m² dedicated to the manufacture of generator sets, the largest production unit of this equipment, in Portugal, located in Aveiro - which allows us to have great flexibility. Proof of this is that Grupel is perfectly qualified to produce standard generators, but also special projects of high complexity and other specific customized solutions. In addition, we have differentiating services, with a specialized team for situations that require our intervention / cooperation.

We are a reference brand in the sector, and we work tirelessly for the satisfaction of our customers.

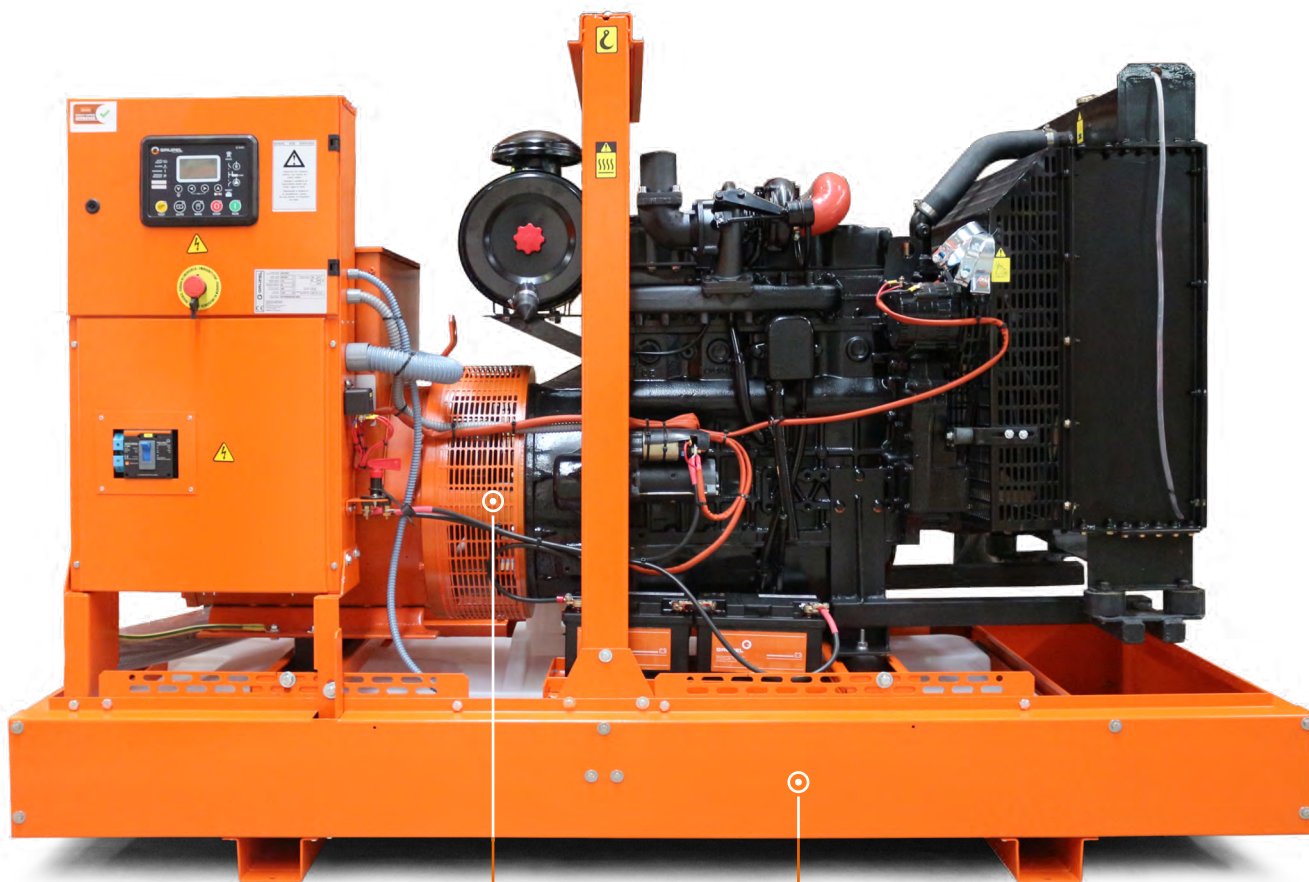
In 2020, Grupel was recognized by Portuguese consumers with the Five Star Award (Prémio Cinco Estrelas), for the third consecutive year.

But the brand is not only recognized in Portugal. Currently, 78% of the company's turnover is due to its international presence - in more than 60 countries, on 5 continents.

Grupel's commitment to the quality of its products and services - and the growing recognition of the brand as a leader in the sector - makes our Energy more evident to both Portuguese and international consumers.



GRUPEL GENERATORS



ALTERNATOR

Grupel uses alternators from the renowned Leroy Somer and Stamford, as well as its own brand, ensuring quality and reliability in any solution. With a wide range of powers, these alternators are easily coupled with a vast number of engines.

CHASSI

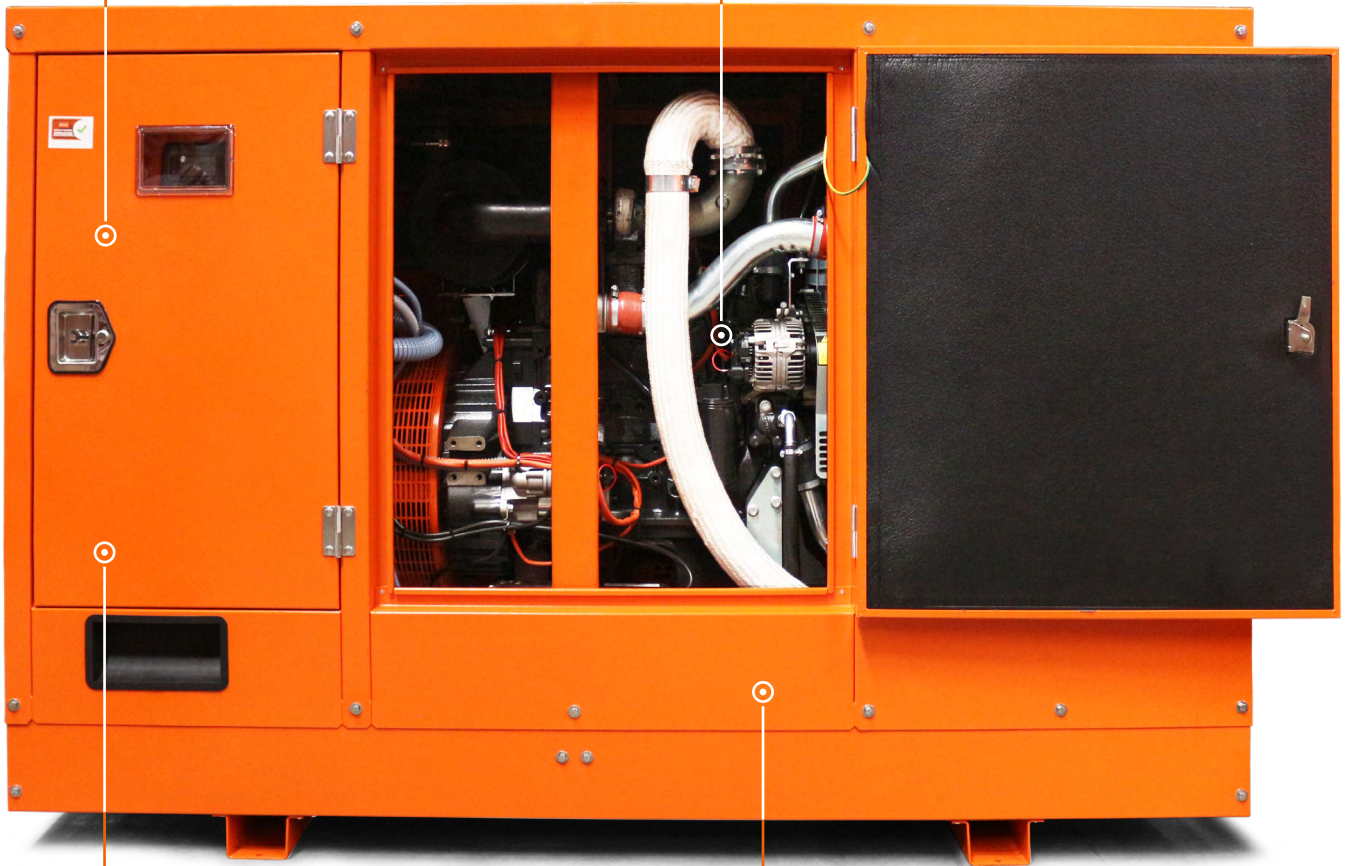
- ✓ Steel frame
- ✓ Anti-vibration system
- ✓ Painting with anticorrosive treatment
- ✓ Lifting system
- ✓ Integrated tank

CONTROL PANEL

The control panel is responsible for monitoring and protecting the generators and can be considered the “brain” of the group. It is placed in the chassis in open versions or integrated in the canopy in soundproof versions.

ENGINE

Grupel uses different engines in its generators, adapting its products to the needs of its customers and to the requirements of the projects it takes on.



AUTOMATIC TRANSFER SWITCH

This equipment switches between the main source (usually the network) and the secondary source (usually the group).

Operating automatically, it is also used to connect alternating generators.

CANOPY

- ✓ Steel, stainless or aluminum sheet
- ✓ Insulated with anti-noise and anti-fire material
- ✓ Epoxy polyester paint
- ✓ Airflow efficiency for engine cooling
- ✓ Control panel with easy access
- ✓ Side doors
- ✓ Anti-corrosion treatment



PR

PORTABLE RANGE

2 - 7 kVA

The **Portable Range** is ideal for supplying energy to low-power activities and equipment and can be used by both professionals and regular people.



GR2500



INVERTER GENERATOR

Stable power, ideal for more sensitive devices



ALWAYS CONNECTED

This generator has one outlet, one DC output and two USB ports



DOUBLE THE ENERGY

You can connect and use two GR2500 generators simultaneously



LIGHT AND COMPACT

At just 22kg, this generator is easy to move and handle

GR3000



DIGITAL DISPLAY

Voltmeter, frequency meter and hour counter



WHEELS AND FOLDING HANDLE

Easy to carry and to store



FUEL TANK

The fuel tank can hold 15L of gasoline



MANUAL START

The generator starts by pulling the manual starter handle

GR6500



DIGITAL DISPLAY

Voltmeter, frequency meter and hour counter



WHEELS AND FOLDING HANDLE

Easy to carry and to store



REMOTE START

It is possible to start the generator using a remote



AUTO START

Through a Grupel QTC, in case of network failure

		GR2500	GR3000	GR6500
Main Features	Type	Single-Phase	Single-Phase	Single-Phase / Three-Phase
	Continuous Power (PRP) (kW)	2.0	2.8	6.3
	Starting Power (kW)	2.2	3.0	6.9
	Frequency (Hz)	50	50	50
	AC Voltage (V)	230	230	230 / 400
	Automatic Voltage Regulator (AVR)	Yes / Inverter	Yes	Yes
	Fuel tank capacity (L)	4.5	15	25
	Fuel type	Unleaded petrol	Unleaded petrol	Unleaded petrol
	Engine type	4 stroke	4 stroke	4 stroke
	Starter system	Manual	Manual	Manual / Electric
	Safety for lack of oil	Yes	Yes	Yes
	Noise level (dBA)	68 @ 7m	96	97
	Dimensions	Length x Width x Height (mm)	500x285x455	660x600x500
Weight (kg)		22	52	104
Extras	Sockets	1 Schuko 16amp	2 Schuko 16amp	1 Schuko 16amp + 1 single phase industrial 32amp + 1 3P+N+T 16amp
	Circuit Breaker	Yes	Yes	Yes
	Hour Counter	Digital	Digital	Digital
	Wheels and Handles	-	Yes	Yes
	Battery	No	No	Yes
	Voltmeter	Digital	Digital	Digital
	Frequency meter	Yes	Yes	Yes
	Auto Start	No	No	Yes (via Grupel ATS)
	ATS (opcional)	No	No	Yes (single-phase and three-phase)
	Remote Start	No	No	Yes
	DC Output	Yes (12vdc 8amp)	No	No
	USB	Yes (1.0A + 2.1A)	No	No
Possibility of parallel operation	Yes	No	No	

PARALLEL KIT

It is possible to meet greater energy needs through the parallel operation of two GR2500 generators. By connecting two of this model's units, you can use them simultaneously to power devices with more demanding loads or more devices at the same time.

You can keep the power cables safe in the back of the equipment.

Kit sold separately.





SR

SMART RANGE

9 - 60 kVA

The Grupel **Smart Range** is composed of products with characteristics that are suitable for emergency applications. These gensets start operating automatically whenever there is a power failure, thus ensuring a competent and efficient supply



ENGINES POWER IN KVA | STANDBY

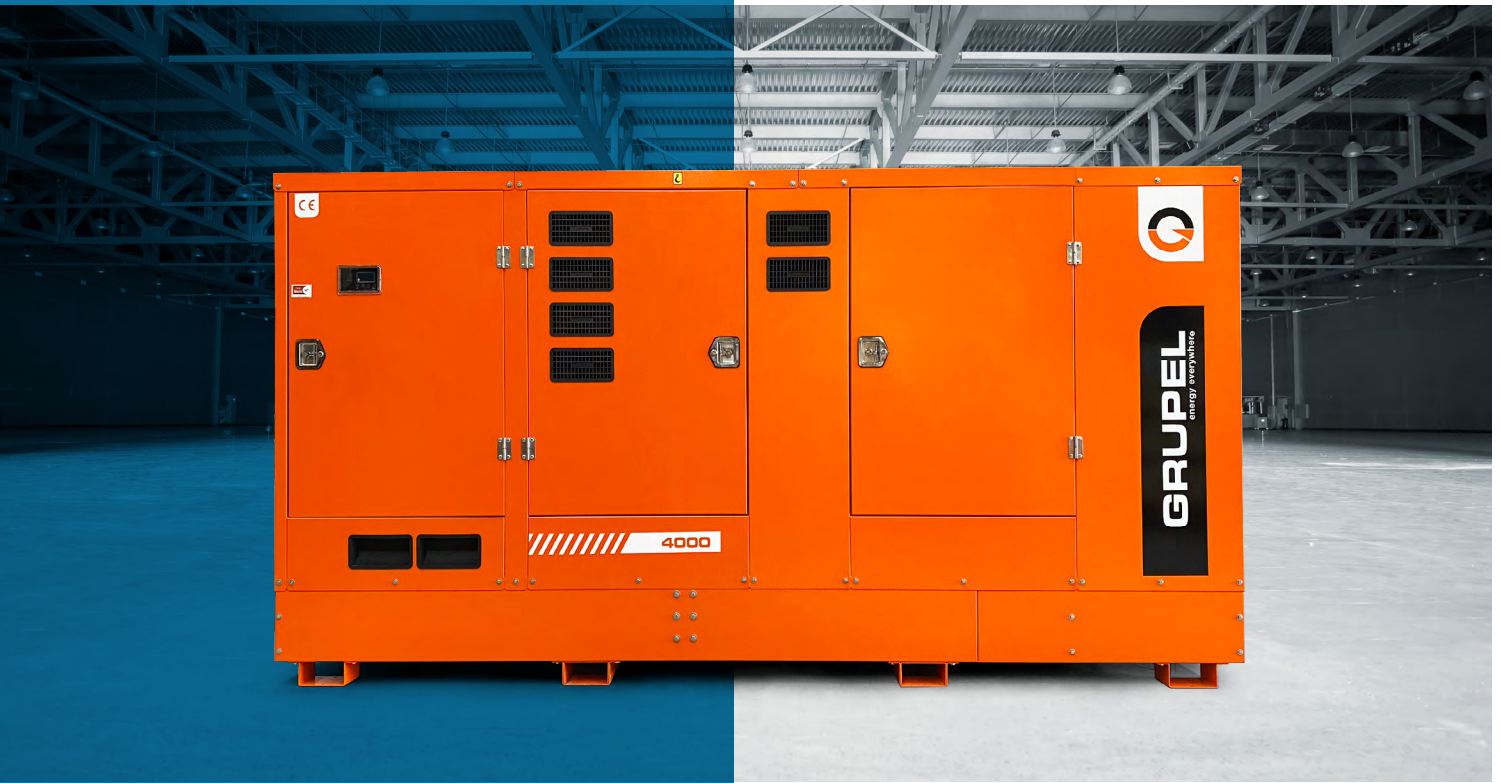
GRUPEL	11	44
Perkins	9	51
Baudouin	20	55
FPT	33	58

ALTERNATORS



STANDARD MODELS





IR

INDUSTRIAL RANGE

30 - 1500 kVA

The **Industrial Range** is aimed especially at industry and is designed to operate as a primary and emergency power source, in installations where there is no other source or where the existing one is very weak.



ENGINES POWER IN KVA | STANDBY

GRUPEL	33	1100
Perkins	55	1500
Baudouin	52	1500
FPT	50	440

ALTERNATORS



STANDARD MODELS





HR

HEAVY RANGE

600 - 3000 kVA

The **Heavy Range**, made up of diesel generators in containers, is designed to provide low and / or medium voltage energy, in a continuous regime, as well as to act as a power source, in case of emergency.



ENGINES POWER IN kVA | STANDBY



600

2300



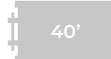
600

2800

ALTERNATORS



STANDARD MODELS





GR

GAS RANGE

The **Gas Range** has some advantages, since gas is the most economical and environmentally responsible option to power generators.

The increasing use of gas, in energy generation for industry and domestic use, has a significant impact, since applications with this type of fuel are generally more economical and ecological.

BASIC FEATURES

- ▶ 4-stroke combustion engine
- ▶ Self-excited alternator ip21 / ip23 class H
- ▶ Steel frame with anti-vibration pads
- ▶ Cooling radiator or heat exchanger
- ▶ Control panel with measuring devices
- ▶ Automatic circuit breaker
- ▶ Fully equipped gas ramp
- ▶ Steel exhaust system



OPTIONS

- ▶ Soundproof and weather protection steel canopy
- ▶ Automatic oil level control
- ▶ Engine preheating
- ▶ Stainless steel exhaust system
- ▶ ATS
- ▶ Remote control
- ▶ Possibility of synchronism
- ▶ Soundproofed marine container suitable for the outdoors
- ▶ Heat recovery systems for refrigeration and / or exhaust circuits
- ▶ Natural gas, biogas, syngas, etc ...
- ▶ Remote cooling



SP

SPECIAL PROJECTS

One of Grupel's most distinguishing characteristics is the ability to adapt to the needs of each customer. The keywords of our **Special Projects** are flexibility and adaptability.



BLACK START SYSTEM FOR COMBINED CYCLE POWER PLANT

 Ivory Coast

Special project that consists of a medium voltage generation plant, composed of 5 generator sets of 3125 kVA, each inserted in a 40" HC container, and with a total power of 15.6 MVA. Each equipment has an independent fuel system with high autonomy (5000L), inside the container, but separated from the generator and the control room, through soundproof and fireproof panels. Each group also has a CO2 fire detection and extinguishing system, integrated in the container.

The Black Start is meant to guarantee the start of the combined cycle in the absence of a grid, and to assist the main auxiliary equipment of the plant. For this, it

has a fully automated control system with redundant PLCs and a Supervision and Data Acquisition System (SCADA) with connection to the command center (DCS) of the Azito's Combined Cycle Power Plant.



18MVA MEDIUM-VOLTAGE POWER PLANT

📍 Angola

Special project that consists of a medium voltage plant, composed of 11 generators of 1770kVA, each inserted in a 40" HC container, and with a total power of 18MVA. Each container is divided into three different spaces: transformer; generator set and control panel; protection and synchronism.

This project has a Supervision and Data Acquisition System (SCADA) capable of managing the entire industrial part and the energy production itself, as well as a generator for starting the entire plant, in the absence of a grid (Black Start).



NATURAL GAS COGENERATION PLANT

📍 Mexico

Special project consisting of an 1875kVA PRP generator, which operates on gas and makes use of heat, both for the refrigeration circuit and for the exhaust. The generator is in a 40" soundproof container, divided into two spaces - an electrical room and a generation room that houses the entire auxiliary system, equipped with a gas and fire detection system.

The system was designed to produce energy continuously (24h / 365 days).



NSPA GENERATORS FOR THE SPANISH ARMY

📍 Spain

Special project composed of seven 600 kVA generators for military application. All generators are high performance, highly customizable, robust, soundproofed and ready to be airborne. The equipment was designed for parallel or island operation and for automatic start, in case of grid failure. Each generator is equipped with an electrical panel with CETAC sockets, to facilitate the connection and disconnection of loads.

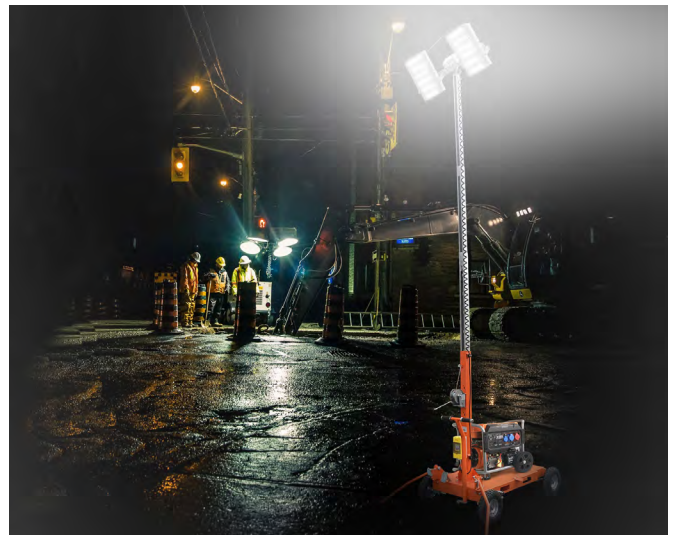




LT

LIGHTING TOWERS

Grupel **Lighting Towers** are efficient and simple, which allows them to work in all types of conditions.



APPLICATIONS

Agriculture, Residential, Construction, Industry

AVAILABLE MODELS

Model with **2 350W LED luminaires** with **4.5m mast**, for portable generators:

- ▶ Manual version
- ▶ Pneumatic version

Model with **4 350W LED luminaires** with **7m mast**, for generators up to 10 kVA:

- ▶ Manual version
- ▶ Pneumatic version



TECHNICAL SUPPORT & AFTER-SALES SERVICES



TECHNICAL ASSISTANCE

Performed remotely, by phone or on site.



SPARE PARTS SERVICE

Spare parts for engines, alternators and generators of all brands.



GENERATOR MAINTENANCE

Full and personalized monitoring of your equipment.



STARTING AND TRAINING

Functional tests and training for the use of the equipment.



GENERATOR REMODELING

Improvement of obsolete generators or components in poor condition.



SOLUTIONS AND PROJECTS

Proposals tailored to your needs.

Order one of these services at
www.grupel.eu





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Chosen by Portuguese consumers for the third consecutive year.