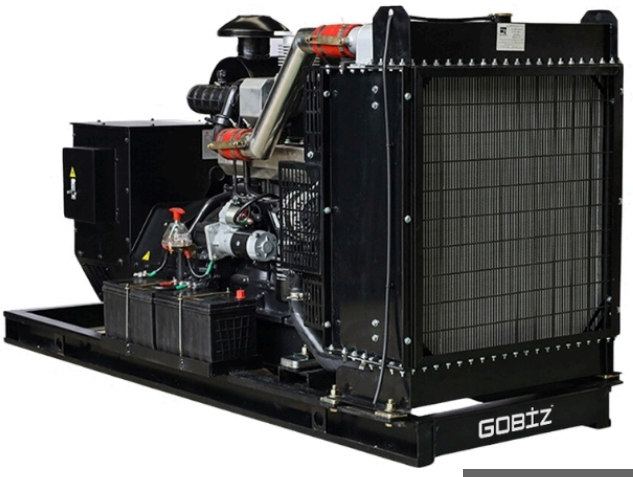
GOBİZ GENERATOR





PRODUCTION TR

ABOUT THE PRODUCT

GOBIZ GENERATOR sets are designed to provide reliable and continuous power even under the most challenging conditions. This generator set offers optimal performance, reliability, and versatility for power generation systems, backup, main power, and continuous duty applications. Our generators are supported by after-sales maintenance services, comprehensive warranties, and worldwide spare parts supply.

POWER VALUES

VOLTAGE (V)	STANDY-BY POWER (ESP)			PRIME POWER (PRP)			3 PHASE / 50 HZ
	KVA	/	KW	KVA	/	KW	AMPERE
400/231	50,00	/	40,00	45,00	/	36,00	72,00

Stand By Rating (ESP): This refers to the operation of generators under varying loads for specified time intervals. They can operate as backup power but are not suitable for operation under overload conditions.

Prime Rating (PRP): This refers to the operation of generators as a continuous power source when there is no grid electricity. It allows for a 10% overload for one hour every 12 hours.

GENERAL FEATURES

Model Name	GBR-50
Frequency (HZ)	50
Fuel Type	Diesel
Engine Brand	Ricardo
Alternator Brand **(Optional)**	Business / Stamford / Leroy Somer / Gensan
Control Panel **(Optional)**	Datakom / Gobiz / Deepsea / Mebay
Soundproofing Cabin Model	CAB-50

ENGINE FEATURES

Engine Brand	Ricardo
Engine Model	K4102ZD
Number of Cylinders	4
Bore (mm)	102
Stroke (mm)	115
Cylinder Volume (L)	3.76
Air Intake	Turbocharged
Governor (Gov.)	Mechanical

Compression Ratio		17:1
Speed Max/Min (rpm)		1500
Oil Capacity (L)		10 L
Cooling Fluid Capacity (L)		13 L
Engine Stand-by Power (kW / HP)		50 kW / 67.1 HP
Engine Prime Power (kW / HP)		45 kW / 60.3 HP
Fuel System		Mechanical Pump
Injection and System		Direct Injection
Cooling Method		Liquid (water + antifreeze)
Electric Start System		12 Vdc
GENSET Fuel Consumption		
100%	Fuel Consumption in Use L/h	≤ 9,7
75%	Fuel Consumption in Use L/h	≤ 7,6
50%	Fuel Consumption in Use L/h	≤ 5,6

GOBIZ GENERATOR generator sets use heavy-duty, 4-Stroke (mm) (mm) industrial diesel engines. These engines provide reliable power, low emissions, and quick response to load changes. The engine cooling system is designed and tested for nominal ambient temperatures, simplifying facility design requirements.





BUSINESS GENSAN LEROY-SOMER mecc alte STAMFORD

GOBIZ GENERATOR alternators are designed using the latest technology to ensure high efficiency and reliability. The low reactance 2/3 pitch windings provide low waveform distortion with non-linear loads and offer short-circuit capability. Class H insulation ensures safe and efficient operation even at high temperatures. Our alternators also provide high dynamic performance and durability against short circuits, allowing them to respond quickly to sudden load changes.

ALTERNATOR FEATURES

Alternator Brand **(Optional)**	Business / Stamford / Leroy Somer / Gensan
Frequency (Hz)	50
Voltage (V)	400 / 230
Phase	3
Voltage (V) Regulation	(+/-)1%
Insulation System	H
Protection Class	IP23
Power Factor	0.8

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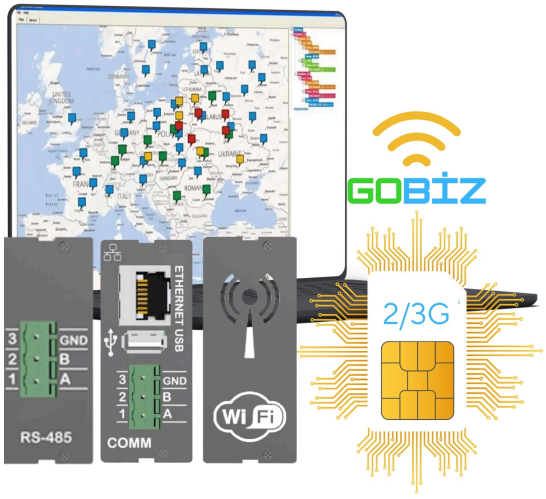




The Control panel is an advanced solution in generator control systems, noted for its multifunctional structure and extensive communication capabilities. This control panel can perform a wide range of functions including synchronization, load sharing, AMF, ATS, remote start, engine control, and remote monitoring. It is equipped with plug-in communication modules that enable remote monitoring via GSM or Ethernet. Its modular design provides unlimited expansion capability to meet specific requirements.

CONTROL PANEL FEATURES

Control Panel Brand **(Optional)**	Datakom / Gobiz / Deepsea / Mebay
Functions	Synchronization, Load Sharing, AMF, ATS, Remote Start, Engine Control, Remote Monitoring
Communication	GSM-GPRS, Ethernet, Modbus RTU, Modbus TCP/IP, SNMP, USB
Mounting	Panel mounting, IP65 protection level

FUNCTIONS

Multiple Generator Synchronization	Synchronization of up to 48 generators
Grid Synchronization	Parallel operation with the grid, load transfer, power export
AMF and ATS	Automatic mains failure control, seamless power transfer
Remote Start and Control	Monitoring and control via GSM or Ethernet

The control panel complies with and often exceeds the strictest safety, vibration, and environmental standards in the industrial category. Its easy software update process ensures that the device remains up-to-date at all times.

COMMUNICATION MODULES (Optional)

Synchronization Plug-in Module	DC Current/Voltage Module
4G-2G Modem Plug-in Module	Wifi Plug-in Module
2G Modem Plug-in Module	Comm Plug-in Module
Ethernet Plug-in Module	RS-232 Module
RS-485 Plug-in Module	Analog IO Extension Module

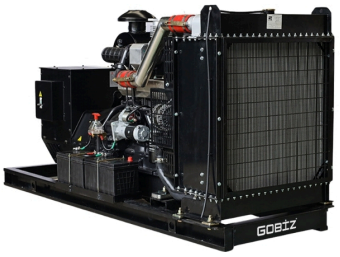
The control panels is a globally recognized generator control and monitoring systems. Control panel products comply with and often exceed the strictest safety, vibration, and environmental standards in the industrial category. These products are manufactured using high-quality materials and advanced technology, ensuring long-lasting and reliable performance.

It is manufactured to high-quality standards, providing reliable and innovative solutions in energy management. The easy software update process ensures that the device remains up-to-date at all times.

DIMENSIONS OF GENSET WITH CANOPY		
Length	2200	mm
Width	1000	mm
Height	1200	mm
Dry Weight	1040	kg
Fuel Capacity	150	lt



DIMENSIONS OF GENSET WITHOUT CANOPY		
Length	2000	mm
Width	1000	mm
Height	1000	mm
Dry Weight	780	kg
Fuel Capacity	150	lt





GENERATOR CABIN

Container and Modular Type Canopy Production

Sound Insulation Between 65-90 dB/7m

Anti-Vibration Pads

Corrosion-Resistant Locks and Hinges

Easy Transportation with Forklift-Friendly Chassis Feet

Cover for Easy Access to Control Panel

Hidden Exhaust

Emergency Stop Button

Design for Easy Generator Maintenance

Lockable Doors on Both Sides

Canopy Structure with Weld-Free Bolt and Nut Assembly

CABIN SAFETY AND CERTIFICATIONS

TS EN 12100, TS EN 60204-1

MACHINE SAFETY REGULATION 2006/42/EEC

LOW VOLTAGE REGULATION 2014/35/EC

NOISE EMISSION REGULATION 2000/14/EC

CE DECLARATION OF CONFORMITY

ENVIRONMENT MANAGEMENT SYSTEM ISO 14001:2015

QUALITY MANAGEMENT SYSTEM ISO 9001:2015

CUSTOMER SATISFACTION SYSTEM ISO 10002:2018

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM ISO 45001:2018

CUSTOMER OPTIONS

GOBIZ GENERATOR generator canopies can be customized to meet customer needs. Solutions are available for different climate conditions and special usage areas. The canopies are protective against climate conditions and provide sound insulation

GOBIZ GENERATOR generator sets are designed to enhance the reliability and durability of your power solutions. With user-friendly design and high-quality materials, they offer long-lasting and trouble-free operation.