



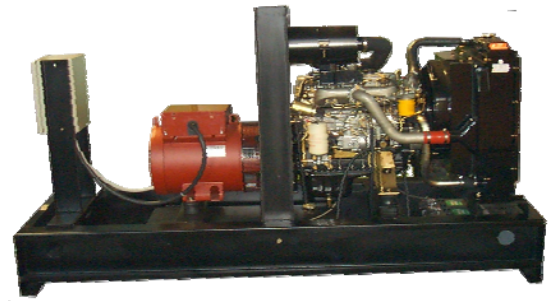
# AUTOMATIC/MANUALLY OPERATED GENSETS



**Contact information: Bd.Timisoara nr.104A sector 6  
Bucuresti  
Tel.: 0314 251 202; 0314 251 203; 0314 251 207  
Fax: 0314 251 201                      [www.umeb.ro](http://www.umeb.ro)**

## GEBAS type gensets

- ✓ UMEB offers a wider range of gensets, as well as other types of electrical equipment and services.
- ✓ Gensets: single-phase and three-phase generators, manually operated or with automatic (AMF) operation, stationary or mobile, installed outdoors - with soundproof canopy, or indoors - open frame models, covering a power range between **2 and 800 kVA**, as well as welding gensets covering a welding current range between 20 and 500 A.
- ✓ The GEBAS genset series has been designed to fulfill all the energetic necessities of every type of electric appliance, having a compact design, powerful, reliable, easy to use and with silent operation.
- ✓ GEBAS gensets are equipped with diesel engines from famous genset engines manufacturers.



### **Internal combustion engine** - GEBAS gensets are equipped with best quality, world wide famous engines.

The engines equipping the GEBAS series are reliable, low-noise, powerful, with low fuel consumption and manufactured using innovative technologies.

4 stroke, water-cooled, direct injection, in-line 2-6 cylinders or Vee form 8-12 cylinders, naturally aspirated or turbocharged Diesel engines.

Mechanical or electronic governor.

Electric starter motor 12/24V DC.

Battery charging alternator 12/24V DC.

Fuel pump and fuel filter(s), oil pump and oil filter(s), fuel injection pump, air filter(s).

Oil pressure sensors, engine temperature sensors.

Automatic engine shutdown in case of genset malfunction.

Pre-heating system (only for automatic gensets).

Exhaust system with low-noise muffler(s) and bellow(s).

**GENERATOR** - Synchronous, 4 pole, single bearing, brushless. Self excited and self regulated by AVR (Automatic Voltage Regulator). IP21 or IP23 protection degree. Insulation class H.

### **SKID (BASE FRAME)**

The engine-generator assembly is made by coupling the two major components via the SAE coupling system. Thanks to the special anti-vibration rubber damper pads, the genset does not induce noticeable vibrations to the surrounding foundation. The maximum vibration level induced to the genset base frame is 5mm/s.

**FUEL TANK**, is incorporated in the genset's base frame. As genset manufacturer, UMEB can adapt to the customers' requests by enlarging or reducing the fuel tank capacity, in order to ensure the requested genset autonomy. In addition, the gensets can be equipped with large capacity auxiliary (external) fuel tanks with automatic refueling system.

**SOUNDPROOF CANOPY**, made from electrostatic spray-painted steel sheet, which reduces the corrosive action of atmospheric and surrounding environmental agents.

**EXHAUST MUFFLER**, ensures silent genset operation and reduces the environmental impact of exhaust gas according to the relevant EU standards.

### **COMMAND AND CONTROL PANEL**

The control panel is included in the genset assembly, fitted on the genset's base frame and can be visualized through one of the canopy door's plexiglas window.

The gensets are equipped with manually operated or automatic operation electric panels, according to the customer's request. The panels offer multiple set-up and protection functions and operating modes. The gensets can also be remote operated and monitored using the PC, including via Internet and GSM, as an optional extra. The control panel is friendly and easy to use. The automatic control panels can be manufactures as a dual electrical board (the control-side apparatus is separated from the switchgear).



### **QUALITY STANDARDS**

The GEBAS series gensets are designed and manufactured by our company according with the latest issued European relevant standards ISO 9001/2000, ISO 14001/2004, ISO 18001/1999 certified by SGS.



- ✓ **UMEB can manufacture custom-built and special gensets upon customer's request.** The Genset Design and Development Department can engineer custom-built gensets (different rated or dual AC voltage, larger fuel tanks, non-standard overall dimensions gensets, paralleling units, duplex gensets fitted inside special containers, gensets with a particular Diesel engine requested by the customer, and so on).



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## The standard range of three-phase GEBAS type Diesel engine gensets

Model	Apparent power [kVA]		No. of cylinders/ arrangement	Cubic capacity [l]	Engine power [HP]	Fuel tank capacity [l]	Overall dimensions L x w x h [mm]	Dry weight open-frame / canopied [kg]
	Prime	Stand-by						
GEBAS 17 IW	15	17	4 / in-line	2.324	28.16	130	2050x1000x1420	772 / 552
GEBAS 22 IW	20	22	4 / in-line	2.324	28.16	130	2050x1000x1420	780 / 560
GEBAS 25 IW	22.5	25	4 / in-line	2.771	36.2	130	2050x1000x1420	790 / 570
GEBAS 30 IW	26	30	4 / in-line	2.771	36.2	130	2050x1000x1420	790 / 570
GEBAS 35 IW	30.5	34.5	4 / in-line	2.771	42.9	130	2050x1000x1420	801 / 581
GEBAS 40 PW	39	41	4 / in-line	3.99	59	270	2050x1000x1700	1300 / 850
GEBAS 50 PW	52.5	55	4 / in-line	3.99	97	270	2500x1000x1700	1320 / 870
GEBAS 60 PW	63	66	4 / in-line	3.99	97	270	2500x1000x1700	1350 / 910
GEBAS 75 PW	71	75	4 / in-line	3.99	97	340	2800x1100x1935	1510 / 925
GEBAS 80 PW	74	81	4 / in-line	3.99	97	340	2800x1100x1935	1550 / 965
GEBAS 100 DW	95	104.5	6 / in-line	5.99	124.3	340	2800x1100x1935	1705 / 1125
GEBAS 120 DW	110	120	6 / in-line	5.99	136.8	340	2800x1100x1935	1725 / 1145
GEBAS 135 DW	120	138	6 / in-line	5.99	136.8	340	2800x1100x1935	1730 / 1150
GEBAS 150 DW	138.5	153.5	6 / in-line	5.99	179.7	340	2800x1100x1935	1800 / 1220
GEBAS 170 DW	164	176	6 / in-line	8.071	219.9	340	2800x1100x1935	1905 / 1320
GEBAS 190 DW	180	192.5	6 / in-line	8.071	266.9	550	3300x1300x2035	2120 / 1270
GEBAS 200 DW	185	200	6 / in-line	8.071	266.9	550	3300x1300x2035	2125 / 1275
GEBAS 220 DW	206	220	6 / in-line	8.071	266.9	550	3300x1300x2035	2210 / 1360
GEBAS 240 DW	225	240	6 / in-line	11.051	364.8	550	3300x1300x2035	2445 / 1550
GEBAS 260 DW	246	258	6 / in-line	11.051	364.8	550	3300x1300x2035	2450 / 1600
GEBAS 270 DW	262	275	6 / in-line	11.051	364.8	550	3300x1300x2035	2470 / 1620
GEBAS 300 DW	277	300	6 / in-line	11.051	364.8	550	3300x1300x2035	2480 / 1630
GEBAS 325 DW	310	325	6 / in-line	11.051	394.3	650	3500x1600x2360	2865 / 2015
GEBAS 350 DW	330	350	8 / Vee form	14.618	431.8	650	3500x1600x2360	2980 / 2130
GEBAS 400 DW	380	400	8 / Vee form	14.618	431.8	650	3500x1600x2360	2995 / 2145
GEBAS 420 DW	381	420	8 / Vee form	14.618	485.5	650	3500x1600x2360	3030 / 2180
GEBAS 450 DW	425	450	8 / Vee form	14.618	485.5	650	3500x1600x2360	3040 / 2190
GEBAS 500 DW	475	500	10 / Vee form	18.273	593	650	3500x1600x2360	3450 / 2550
GEBAS 550 DW	522.5	550	10 / Vee form	18.273	665.1	650	3500x1600x2360	3550 / 2650
GEBAS 650 DW	630	650	12 / Vee form	21.927	769.7	700	3500x1600x2360	4080 / 3180
GEBAS 680 DW	630	680	12 / Vee form	21.927	769.7	700	3500x1600x2360	4100 / 3200
GEBAS 760 DW	723	760	12 / Vee form	20	900	700	4000x1600x2360	4250 / 3350

\* The information provided is not binding. Due to permanent product development, the technical specification can change without notice.

## The standard range of GEBS portable gensets

Phase number	Model	Apparent power (kVA)		Rated voltage (V)	Gasoline engine - BRIGGS & STRATTON				
		Continuous duty *COP	Stand-by duty *LTP		Engine model	Maximum power (kW/HP)	Cubic capacity (cm <sup>3</sup> )	Noise level (dB(A))	Fuel consumption (L/h)
Single-phase cos φ = 1	GEBS 4000 – GM	3.5	4	230 / 115	Intek I/C OHV	5.9 / 8	305	85	1.5
	GEBS 5000 – GM	4.5	5	230 / 115	Vanguard OHV	8 / 11	391	88	2
	GEBS 8000 – GM	7.5	8	230 / 115	Vanguard V-Twin OHV	11.8 / 16	480	90	3
Three-phase cos φ = 0.8	GEBS 5500 – GT	5	5.5	400 / 230	Intek I/C OHV	7.35 / 10	305	85	1.5
	GEBS 7500 – GT	7	7.5	400 / 230	Vanguard OHV	9.56 / 13	391	88	2
	GEBS 10000 – GT	9.5	10	400 / 230	Vanguard V-Twin OHV	11.8 / 16	480	90	3
	GEBS 12000 – GT	11.5	12	400 / 231	Vanguard V-Twin OHV	13 / 18	570	90	3.5

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## The standard range of GESF welding gensets

Model	Welding current range [A]	Duty cycle		Electrode diameter [mm]	Three-phase power [kVA]	Single-phase power [kVA]	Single-phase voltage [V]	Three-phase voltage [V]	Engine model	Mechanical power [kW/HP]
GESF – GB 4 / 200	50 – 200	200A / 35%	170A / 60%	1.5 – 4	-	4	230	-	Vanguard OHV	9.56 / 13
GESF – GB 6.5 / 220	40 – 220	220A / 35%	170A / 60%	1.5 – 5	6.5	3.5	400	230	Vanguard OHV	9.56 / 13

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## MOBILE CANOPIED gensets



- ✓ The mobile soundproof canopied GEBAS series gensets are designed to operate in the harshest weather conditions and correspond to the EEC 89/389 standard requirements regarding person and animal protection, as well as EEC 84/536 standard requirements regarding noise level.
- ✓ The canopy is made from electrostatic spray-painted steel sheet, which reduces the corrosive action of atmospheric and surrounding environmental agents.
- ✓ The inside canopy walls are insulated with soundproof expanded material that can withstand ambient temperatures between -40 and 120°C. The electric cables are incased in polyamide tubing that can withstand grease, mineral oil, Diesel fuel and oil, according to international standards.
- ✓ Mobile gensets have the same technical specification as the GEBAS series gensets, but they also include the soundproof canopy as standard and the genset is mounted on a trailer that can be toed at a maximum recommended speed of 60km/h (37 miles/h). In principle, the trailer structure is made from reinforced profiled steel, equipped with towing spear and hook, and with height adjustable jockey wheel. The trailer is fitted with overrun inertia brake for increased road safety. The trailer is also fitted with stop lights and turn signals according to public roads legislation requirements.
- ✓ The major difference between UMEB and our competitors is that UMEB can provide its clients integrated manufacturing solutions.

*For us, clients' satisfaction is a key objective, and to achieve it, we always have a responsible and proactive approach towards their requests.*

### ***In addition to outstanding gensets, UMEB provides a generous package of services:***

- ✓ ***24 months warranty from genset commissioning. In special cases, the warranty can be extended.***
- ✓ ***Free counseling*** in order to help the customer choose the optimum genset.
- ✓ ***Customized solutions.*** The Genset Design and Development Department can engineer custom-built gensets (different rated or dual AC voltage, larger fuel tanks, non-standard overall dimensions gensets, paralleling units, duplex gensets fitted inside special containers, gensets with a particular Diesel engine requested by the customer, and so on).
- ✓ ***Renting services*** for a wide range and types of gensets.
- ✓ ***Maintenance and specialized service*** through the Service Department. UMEB's specialists are highly trained and equipped with the latest technologies for tracing and repairing defects in a very short time. A strong point is the fact that we have 24/7 mobile service units which provide service to the client's location.
- ✓ ***Spare parts available in stock***, we have spare parts for every genset component.
- ✓ ***After-service and spare parts for the entire genset's service life.***
- ✓ ***Delivery from stock***, the company can deliver gensets from stock, or with a maximum delivery time of 20 days from the client's order.
- ✓ ***Leasing***, the company can provide a leasing program with the help of a famous bank regarding the lease of the entire genset types and range.
- ✓ ***Transportation***, the company has its own mobile fleet and can provide genset transportation directly to the customer's location.
- ✓ ***Installing the genset and technical assistance upon genset commissioning***, UMEB's specialists have a vast experience, ensuring the best possible technical solutions and results.
- ✓ UMEB's gensets can be *viewed* and acquired directly from the company's headquarters or from our distributors.
- ✓ ***Free genset commissioning, including free training for the client's service personnel.***



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