



GENERATING SETS



Service		Standby	Prime
Power	kVA	25	22,5
Power	kW	20	18
Rated Speed	r.p.m	1500	
Standart Voltage	V	400 / 230	
Rated At Power Factor	Cos Phi	0,8	

GUCBIR Company with quality certification ISO 9001:2015, ISO 10002:2014, ISO 14001:2015, OHSAS 18001:2007, TS ISO IEC 25051:2015, GUCBIR gensets are compliant with CE mark which includes the following directives:

- 2006/42/EC Machinery safety.
- 2014/30/EU Electromagnetic compatibility.
- 2014/35/EU Electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100:2010, TS EN 60201-1, EN 55011, EN 61000-6-4, EN 61000-4-11, EN 61000-4-8, EN 610000-4-5, EN 610000-4-2, EN 610000-4-2, EN 12601, TS ISO 8528-1-12



+90 216 312 7979

info@gucbirjenerator.com

GUCBIR JENERATOR SAN. ve TIC. LTD. STI

Serifali Mahallesi, Tavukcuyolu Cad. No:200 - Umraniye / ISTANBUL / TURKIYE

T: +90 216 312 79 79 | F: +90 216 312 79 77

info@gucbirjenerator.com | www.gucbirjenerator.com

SPECIFICATIONS



Engine



Alternator

Engine		Prime
Standby / Prime	kWm	24,2 / 22
Manufacturer		Ricardo
Model		R490
Engine Type		4 Stroke - Diesel
Injection Type		Direct Injection
Aspiration Type		Natural
Number of cylinders and arrangement		4 - In line
Bore and Stroke	mm	90x100
Displacement / Compression Ratio	L	2,545 / 17:1
Cooling System		Water Cooling
Electrical System	V	12
Fuel Consumption Standby	l/h	7,2
Fuel Consumption 100% PRP	l/h	6,6
Fuel Consumption 75 % PRP	l/h	5
Fuel Consumption 50 % PRP	l/h	3,6
Lube oil consumption with full load		<0,5
Total oil capacity including tubes, filters	L	9
Total coolant capacity	L	20
Governor	Type	Mechanical

Alternator		Specifications
Brand		Maranello
Model		M25
Output Voltage	V	230/400
Frequency	HZ	50
Automatic Voltage Regulation	±%	0,5
Alternator Stand By Power	kVA	25
Alternator Continuous Power	kVA	22,5
Power Factor	Cosq	0,8
Number of Wires		12
Winding		2/3
Protection Class		IP23 / H
Excitation System		Self-excited
AVR Model		SX460
Performance - PF 0,8 / %75 Load	%	86

Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (P_{pp}) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

Note: All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions



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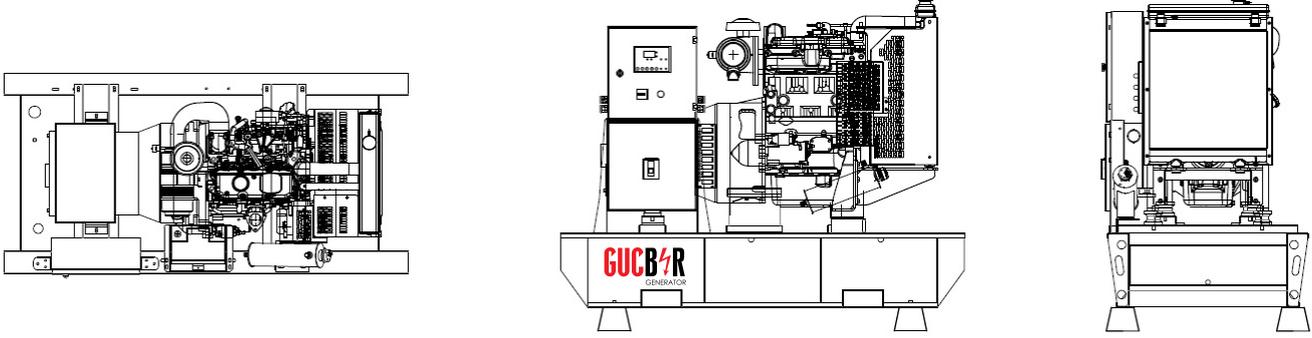
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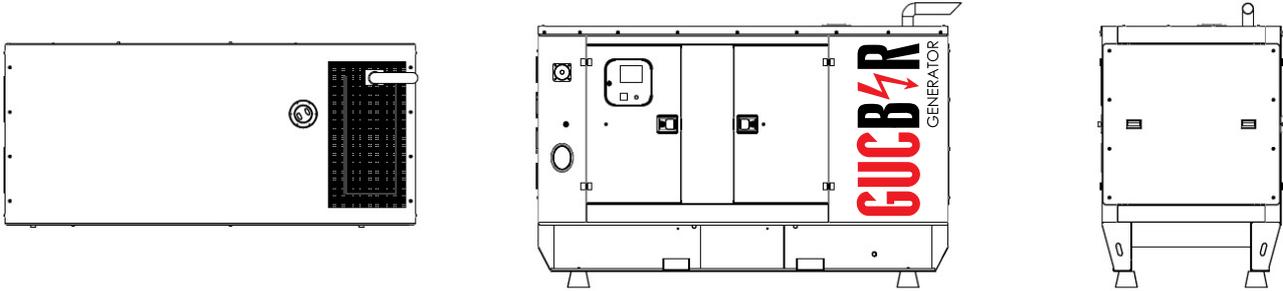
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DIMENSIONS



OPEN SET

LxWxH	mm	1500x750x1100
Weight	kg	720
Fuel Tank	lt	70



CANOPIED

LxWxH	mm	1900x920x1180
Weight	kg	850
Fuel Tank	lt	70

Sound Proof Canopy

- Max. Sound level of generator <70dB(A)
- Special design for minimizing acoustic level.
- Galvanized steel construction further protected by polyester powder coat paint.
- Black finish stainless steel locks and hinges.
- Control panel viewing window in a lockable access door.
- Emergency stop push button (red) mounted on enclosure exterior.
- Lifting, drag and jacking points on base frame.
- Radiator fill via removable, flush mounted rain cap fitted with compression seal.
- Acoustic insulation with moisture-repellent and non-flammable material



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CONTROL UNIT



Control Unit

GB500 - DATAKOM

ATS unit with uninterrupted transfer	Internet Central Monitoring
AMF unit with uninterrupted transfer	SMS / E-mail message sending
Remote / Manuel start controller	Flexible with plug-in modules
Engine controller	Free PC software: Rainbow Plus
GSM-GPRS-GPS-Ethernet Port	Modbus RTU
8 configurable digital inputs	

ATS PANEL

ATS prepared with 40A Heavy Duty Generator Contactors

BATTERY CHARGER

220V / 6,2A Battery charger

OPTIONAL EQUIPMENTS

Some Optional Equipments that GUCBIR provides with Generator Sets;

- Medium voltage alternator,
- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, dashboard, alternator, coil heaters,
- Alternator with double AVR and PMG,
- Synchronization systems, The generator output breaker,
- Grid-generator transfer switches,
- Accordance with the specific volume of demand-insulated cabins,
- Seismic solutions,
- Trailer,
- Remote monitoring.
- SMPS 12/24V 10A

Control Panel

- DeepSea 7320
- Datakom D700/D300/D309/D200
- ComAp AMF9
- ComAp AMF25



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