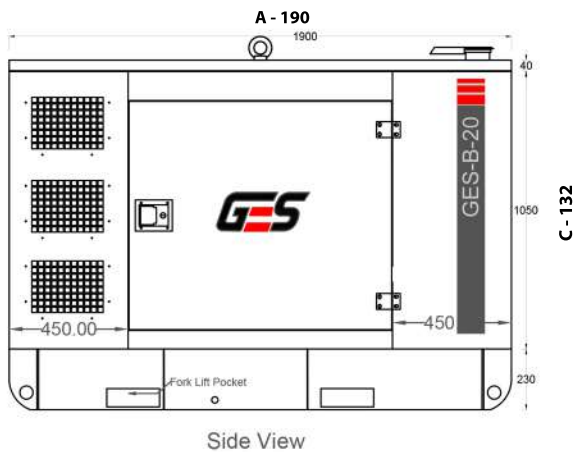




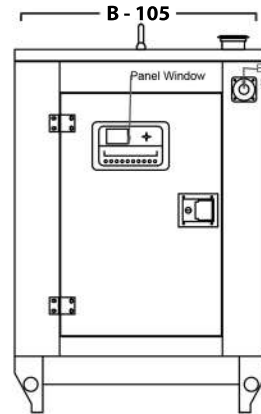
GES B20 KVA GENSET DATASHEET



Weight and Dimensions



Side View



GES B20 SAC		
	Close Type	Open Type
A - Length	190 cm	170 cm
B - Width	105 cm	80 cm
C - Height	132 cm	130 cm
Weight	1100 kg	765 kg

DESIGN FEATURES

- High quality, reliability and durability
- High output and low fuel consumption
- Light weight and compact design
- Low noise and low vibration
- Easy maintenance

Ratings @ 0.8 PF, 3 PHASE

VOLTAGE	FREQUENCY	PRIME RATING	STAND-BY RATING
380/220, 400/230 415/240	50 Hz	20 KVA 16 KW	22 KVA 17.5 KW
380/220	60 Hz	20 KVA 16 KW	22 KVA 17.5 KW
480/277	60 Hz	25 KVA 20 KW	27.5 KVA 22 KW

* Rated Voltage : Line to Line / Line to Neutral : For other voltages please consult factory.

Prime Power

Power available at variable load in lieu of main power network for unlimited number of hours per year. An overload of 10% permitted for one hour in every twelve hours of operation. Average of variable loads shall not exceed 70% of the prime rating. This rating is set in accordance with ISO 8528.

Standby Power

Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted. This rating is set in accordance with ISO 3046-1, DIN6271 and BS 5514.

Proven Performance & Technology

GES series diesel generator sets, the combination of Baudouin engine and reliable alternator, are manufactured under strict quality control standards.

Generator Control Panel

GES series generator sets have a compact and intelligent generator control module, which provides all the safety precautions and its window display both the AC and DC digital measurements.

Disclaimer:

Due to our policy of continuous improvement all information on this data sheet are correct at the time of printing and may altered subsequently.

ENGINE DETAILS

MODEL		4M06G4D0/S	
Flywheel Output	Frequency / Speed	50Hz / 1500 rpm	60Hz / 1800 rpm
	Prime , HP (kW)	29 (22)	34 (25)
	Standby , HP (kW)	32 (24)	38 (28)
No. of Cylinders		4 Cylinders, In Line	
Bore x Stroke, mm		89 x 92	
Piston displacement, Liter		2.3	
Fuel System		Mechanical Pump with Electronic Governor G3 class, direct Injection	
Aspiration		Natural	
Cooling System		Water Cooled, designed for 50C°	
Electrical System	Starter Motor	12V, 3KW	
	Alternator	12V, 35A	
	Battery	12V, 70Ah, MF Lead Acid	
Coupling with AC Alternator		SAE 4 - 7.5	

ALTERNATOR DETAILS

Three Phase, 4 Poles, Brushless Alternator, 0.8 P.F 50Hz 1500 rpm / 60Hz 1800 rpm / Single Bearing	Leroy Somer TAL 042 C
Isulation	Class H
Winding pitch	2/3
Number of Wires	6-Jan
Alternator Protection	IP23
Windings Protection	P2
Excitation System	Shunt
AVR Type	R120
Voltage Regulation	± 1 %
THD - No load	< 3.5 %
THD - Liner Load	< 5 %
TIF	< 50
FHT	< 2 %

* Optional

GENERATOR SET

Capacity Liter	Coolant (Radiator, Engine), Liter	9
	Lubricant (System, Total)	11.5
	Fuel Tank, Sound Attenuated Canopy Type	80
Net Weight Kg - Approx. (Includes Coolant & Oil)	Sound Attenuated Canopy Type	900 Kg
Dimensions L x W x H, mm	Sound Attenuated Canopy Type	1900 x 900 x 1330
Sound Level dBA @ 7m (Average)	Sound Attenuated Canopy Type	73

FUEL CONSUMPTION (Approximately)

Hz	Load, %	50%	75%	100%	110%
50	Fuel, Liter / H	3.2	4.5	6.1	7.1

Scan For the E-version



Standard / Optional Accessories

	S	O
GENERATOR SET		
Main Components mounted on the Skid (Engine, Radiator, Alternator) Controller & MCCB Mounted on Isolated Compartment	✓	
Base Frame - MS Sheets SAC (Sound Attenuated Canopy) - GI Sheets	✓	
Powder Coating Paint for Base Frame & SAC	✓	
Build-in Fuel Tank (up to 650KVA)	✓	
External Fuel Tank supplied loose		✓
Canopy Mounted Emergency Push Button	✓	
Residential Silencer on SAC Type	✓	
Residential Silencer on Open Type		✓
Engine		
Engine start method by energize run mode Engine stop method by energize off mode	✓	
Electronic Governor: Speed Controller & Actuator (ECM some models)	✓	
Water Separator		✓
Water Jacket Heater		✓
Service Intervals every 500 Hours	✓	
Alternator		
Winding Protection: System 2	✓	
Single Bearing Directly Coupled to the Engine	✓	
Anti Condensation Heater		✓
AREP / PMG Excitation		✓
Control Panel & Breaker		
DSE6110mkiii / DSE6120mkiii	✓	
DSE7310mkii / DSE7320mkii		✓
Emergency Stop Push Button	✓	
4 Line LCD Text display Manual & Auto Start Build-in AMF Function Generator Current and Power monitoring (kW, kvar, kVA, pf) Engine parameters monitoring (Oil Pressure, Water Temperature, DC Alter. Charging, ...) Wide Range of Protections & Shutdowns (Under/Over load, Voltage, Frequency, Low Oil Pressure, Hi Water Temperature, Overspeed,) (refer to controller data sheet for more features)	✓	
Dual Speed Selection (50Hz / 60Hz)		✓
Voltage Potentiometer		✓
Frequency Potentiometer		✓
Remote Monitoring Via Web		✓
Remote Annunciator		✓
Battery Charger 12V / 24V		✓
ATS Panel (Automatic Transfer Switch Panel)		✓
Synchronizing & Load Sharing Controller DSE8610mkii		✓
MCCB Motorized with Under Voltage / Shunt Relay		✓
MCB / MCCB TP, Manual, Fixed Type	✓	