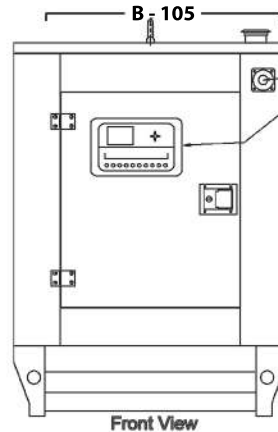
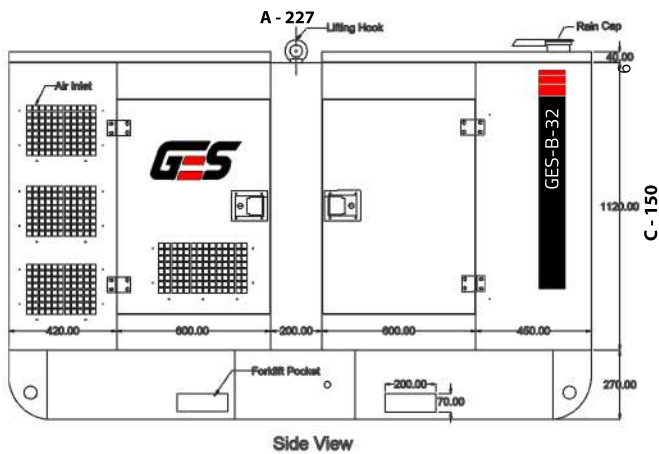




# GES B32 KVA GENSET DATASHEET



## Weight and Dimensions



| GES B30 SAC |            |           |
|-------------|------------|-----------|
|             | Close Type | Open Type |
| A - Length  | 227 cm     | 170 cm    |
| B - Width   | 105 cm     | 80 cm     |
| C - Height  | 150 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<br>415/240 | 50 Hz     | 32 KVA<br>25.5 KW | 35 KVA<br>28 KW   |
| 380/220                     | 60 Hz     | 33.5 KVA<br>27 KW | 37 KVA<br>29.5 KW |
| 480/277                     | 60 Hz     | 40 KVA<br>32 KW   | 44 KVA<br>35 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                       |                   | 4M06G6D0/S                                                          |                 |
|-----------------------------|-------------------|---------------------------------------------------------------------|-----------------|
| Flywheel<br>Output          | Frequency / Speed | 50Hz / 1500 rpm                                                     | 60Hz / 1800 rpm |
|                             | Prime , HP (kW)   | 38 (29)                                                             | 47 (35)         |
|                             | Standby , HP (kW) | 43 (32)                                                             | 53 (39)         |
| 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                  |                   | Turbo Charged                                                       |                 |
| Cooling System              |                   | Water Cooled, designed for 50C°                                     |                 |
| Electrical<br>System        | Starter Motor     | 12V, 3.7KW                                                          |                 |
|                             | Alternator        | 12V, 35A                                                            |                 |
|                             | Battery           | 12V, 70Ah, MF Lead Acid                                             |                 |
| Coupling with AC Alternator |                   | SAE 3 - 11.5                                                        |                 |

## ALTERNATOR DETAILS

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

\* Optional

## GENERATOR SET

|                                                     |                                         |                    |
|-----------------------------------------------------|-----------------------------------------|--------------------|
| Capacity Liter                                      | Coolant (Radiator, Engine), Liter       | 16                 |
|                                                     | Lubricant (System, Total)               | 11.5               |
|                                                     | Fuel Tank, Sound Attenuated Canopy Type | 110                |
| Net Weight Kg - Approx.<br>(Includes Coolant & Oil) | Sound Attenuated Canopy Type            | 1100 Kg            |
| Dimensions L x W x H, mm                            | Sound Attenuated Canopy Type            | 2270 x 1050 x 1500 |
| Sound Level dBA @ 7m<br>(Average)                   | Sound Attenuated Canopy Type            | 73                 |

### FUEL CONSUMPTION (Approximately)

| Hz | Load, %         | 50% | 75% | 100% | 110% |
|----|-----------------|-----|-----|------|------|
| 50 | Fuel, Liter / H | 4   | 5.7 | 7.6  | 8.4  |

**Standard / Optional Accessories**      S = Standard O = Optional

|                                                                                                                                                                                                                                                                                                                                                                                                                                 | S | O |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| <b>GENERATOR SET</b>                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |
| Main Components mounted on the Skid (Engine, Radiator, Alternator) Controller & MCCB Mounted on Isolated Compartment                                                                                                                                                                                                                                                                                                            | ✓ |   |
| Base Frame - MS Sheets<br>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                                                                                                                                                                                                                                                                                                                                                                                               |   | ✓ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |
| <b>Engine</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |
| Engine start method by energize run mode<br>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                                                                                                                                                                                                                                                                                                                                                                                               | ✓ |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |
| <b>Alternator</b>                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |
| Winding Protection: System 2                                                                                                                                                                                                                                                                                                                                                                                                    | ✓ |   |
| Single Bearing Directly Coupled to the Engine                                                                                                                                                                                                                                                                                                                                                                                   | ✓ |   |
| Anti Condensation Heater                                                                                                                                                                                                                                                                                                                                                                                                        |   | ✓ |
| AREP / PMG Excitation                                                                                                                                                                                                                                                                                                                                                                                                           |   | ✓ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |
| <b>Control Panel &amp; Breaker</b>                                                                                                                                                                                                                                                                                                                                                                                              |   |   |
| DSE6110mkiii / DSE6120mkiii                                                                                                                                                                                                                                                                                                                                                                                                     | ✓ |   |
| DSE7310mkii / DSE7320mkii                                                                                                                                                                                                                                                                                                                                                                                                       |   | ✓ |
| Emergency Stop Push Button                                                                                                                                                                                                                                                                                                                                                                                                      | ✓ |   |
| 4 Line LCD Text display<br>Manual & Auto Start<br>Build-in AMF Function<br>Generator Current and Power monitoring (kW, kvar, kVA, pf)<br>Engine parameters monitoring (Oil Pressure, Water Temperature, DC Alter. Charging, ...)<br>Wide Range of Protections & Shutdowns (Under/Over load, Voltage, Frequency, Low Oil Pressure, Hi Water Temperature, Overspeed, .....)<br>(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                                                                                                                                                                                                                                                                                                                                                                                               | ✓ |   |

Scan For the E-version

