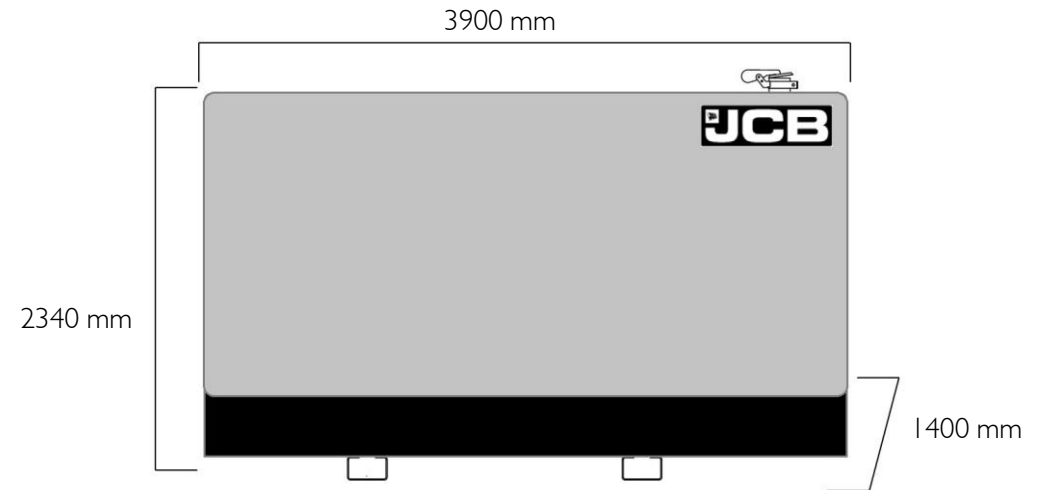


# G275QS | Canopy Set



**DIESEL GENERATOR**

**Fuel Optimised**

## ELECTRICAL

| Frequency (Hz) | Phases | Voltage (V) | Prime |     | Standby |     | Power Factor | Rated Speed (RPM) | Alternator   |
|----------------|--------|-------------|-------|-----|---------|-----|--------------|-------------------|--------------|
|                |        |             | kVA   | kW  | kVA     | kW  |              |                   |              |
| 50             | 3      | 400/230V    | 250   | 200 | 275     | 220 | 0.8          | 1500              | ECO38 1L4A   |
| 60             | 3      | 480/277V    | 282   | 225 | 313     | 250 | 0.8          | 1800              | ECO38 1L4A   |
| 60             | 3      | 380/220V    | 282   | 225 | 313     | 250 | 0.8          | 1800              | ECO38 1L4A-D |
| 60             | 3      | 208/120V    | 282   | 225 | 313     | 250 | 0.8          | 1800              | ECO38 1L4A   |
| 60             | 3      | 220/127V    | 282   | 225 | 313     | 250 | 0.8          | 1800              | ECO38 1L4A   |

## ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

**PRIME:** Available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

**STANDBY:** Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating

# G275QS | Canopy Set



## ENGINE

| 1500 RPM                 |           |                                     |
|--------------------------|-----------|-------------------------------------|
| Output Rating (PRP)      | kW        | 258                                 |
| Output Rating (Standby)  | kW        | 300                                 |
| 1800 RPM                 |           |                                     |
| Output Rating (PRP)      | kW        | 296                                 |
| Output Rating (Standby)  | kW        | 344                                 |
| Manufacturer and Model   |           | Cummins QSL9-G5                     |
| Fuel                     |           | Diesel                              |
| Injection                |           | Direct                              |
| Aspiration               |           | Turbo Charged and Charge Air Cooled |
| Cylinders                |           | 6 - Inline                          |
| Bore and Stroke          | mm        | 114 x 145                           |
| Displacement             | L         | 8.80                                |
| Cooling                  |           | Water                               |
| Engine Oil Specification |           | ACEA E3, E4, E5 or E7               |
| Compression Ratio        |           | 16.8 : 1                            |
| Engine Oil Capacity      | L         | 26.50                               |
| Coolant Capacity         | L         | 36.00                               |
| Governor                 |           | Electronic                          |
| Air Filter               |           | Dry                                 |
| Engine Oil Consumption   | 100% Load | 0.2 g/kWh                           |

## FUEL SYSTEM

|                      |  |       |
|----------------------|--|-------|
| Diesel Specification |  | EN590 |
|----------------------|--|-------|

## FUEL CONSUMPTION

|                   |     |      |      |
|-------------------|-----|------|------|
| 100% Load Prime   | L/h | 50Hz | 51.6 |
| 75% Load Prime    | L/h |      | 38.9 |
| 50% Load Prime    | L/h |      | 27.4 |
| 100% Load Standby | L/h |      | 57.6 |
| 100% Load Prime   | L/h | 60Hz | 60.1 |
| 75% Load Prime    | L/h |      | 42.2 |
| 50% Load Prime    | L/h |      | 32.5 |
| 100% Load Standby | L/h |      | 66.7 |

## EXHAUST SYSTEM

|                                  |      |      |      |
|----------------------------------|------|------|------|
| Maximum Temperature 100% Standby | °C   | 50Hz | 560  |
| Exhaust Gas Flow 100% Standby    | L/s  |      | 880  |
| Maximum Allowed Back Pressure    | mbar |      | 101  |
| Maximum Temperature 100% Standby | °C   | 60Hz | 580  |
| Exhaust Gas Flow 100% Standby    | L/s  |      | 1080 |
| Maximum Allowed Back Pressure    | mbar |      | 101  |

## AIR SYSTEM

|                                     |      |      |      |
|-------------------------------------|------|------|------|
| Intake Air Flow 100% Standby        | m³/h | 50Hz | 1224 |
| Total Cooling Air Flow 100% Standby | m³/s |      | 6.1  |
| Alternator Fan Airflow              | m³/s |      | 0.53 |
| Intake Air Flow 100% Standby        | m³/h | 60Hz | 1476 |
| Total Cooling Air Flow 100% Standby | m³/s |      | 7.8  |
| Alternator Fan Airflow              | m³/s |      | 0.65 |

# G275QS | Canopy Set



## ALTERNATOR

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Poles                           | 4                                   |
| Winding Connections             | Series Star / Parallel Star*        |
| Insulation                      | Class H                             |
| Enclosure                       | IP23                                |
| Exciter System                  | MAUX Excitation                     |
| Voltage Regulator               | AVR (electronic)                    |
| Steady State Voltage Regulation | +/- 1.0%                            |
| Bearing                         | Single bearing                      |
| Coupling                        | Flexible disc                       |
| Cooling                         | Direct drive centrifugal blower fan |
| Coating                         | Grey Winding Protection             |

\* depending on voltage selection

## STARTING SYSTEM

|                     |   |    |
|---------------------|---|----|
| Auxiliary Voltage   | V | 24 |
| Number of Batteries |   | 2  |

## BATTERY FEATURES

|                  |               |
|------------------|---------------|
| Battery Isolator | Δ             |
| Battery Type     | Lead Acid (Δ) |
| Battery Charger  | Δ             |

Standard: ● Not Available: x Optional: Δ

## ELECTRICAL FEATURES

|  |   |
|--|---|
| AVR DSR  | ● |
| Winding Protection – Grey Enhanced                           | ● |
| MAUX   | ● |
| PMG  | Δ |
| Anti-Condensation Heater                                     | Δ |
| 3 Pole Moulded Case Circuit Breaker (with integrated busbar) | ● |
| 4 Pole Moulded Case Circuit Breaker (with integrated busbar) | Δ |
| Earth Leakage Protection (Shunt Trip)                        | Δ |
| Synchronisation  | Δ |
| Preparation for Earth Spike                                  | ● |
| Emergency Stop Button  | ● |

Standard: ● Not Available: x Optional: Δ

## CANOPY FEATURES

|                                   |   |
|-----------------------------------|---|
| Lockable Maintenance Access Doors | ● |
| Control Panel Viewing Window      | ● |
| Yellow Paint                      | ● |
| Alternate Colour                  | Δ |
| Socket Box                        | x |
| External Emergency Stop Button    | ● |
| Door Stays                        | ● |

Standard: ● Not Available: x Optional: Δ

# G275QS | Canopy Set



## MECHANICAL FEATURES

|  |   |
|--|---|
| Cooling Pack                                       | ● |
| Air Filter   | ● |
| Mechanical Governor                                | x |
| Electronic Governor                                | ● |
| Radiator Guards                                    | ● |
| Hot Component Guards                               | ● |
| Water Jacket Heater                                | Δ |
| Fuel/Water Pre Filter                              | ● |
| Manual Oil Drain Pump                              | Δ |
| 3 Way Fuel Valve and Coupling Nest                 | Δ |
| Fork Pockets                                       | Δ |
| Single Lift Point                                  | Δ |
| Bunding  | ● |
| Standard: ●      Not Available: x      Optional: Δ |   |

## SOUND PRESSURE

|          |      |       |      |
|----------|------|-------|------|
| LpA (7m) | 50Hz | dB(A) | 68.5 |
| LpA (7m) | 60Hz | dB(A) | 70.8 |

## FUEL TANK

|            | Material | Capacity (L) |
|------------|----------|--------------|
| Canopy Set | Steel    | 470          |

## MOBILE EMISSIONS REGULATIONS

Depending on the territory, specific emissions legislation applies to generators used in mobile applications. Any generator not permanently installed, for the life of the product, must be considered as mobile equipment and may be subject to emissions legislation requirements. Please consult your local dealer for clarification.

## JCB COMMUNICATION AND CONTROL

|   |   |
|---|---|
| DSE 4520  | ● |
| DSE 7310  | Δ |
| DSE 8610 Synchronising Controller & Motorised Circuit Breaker | Δ |
| Low Oil Pressure Shutdown                                     | ● |
| High Engine Temperature Shutdown                              | ● |
| Low Coolant Level Alarm                                       | ● |
| Low Fuel Level Alarm  | ● |
| JCB LiveLink  | ● |
| Standard: ●      Not Available: x      Optional: Δ            |   |

## WEIGHT AND DIMENSIONS

|                             |                |       |
|-----------------------------|----------------|-------|
| Length                      | mm             | 3900  |
| Width                       | mm             | 1400  |
| Height                      | mm             | 2340  |
| Shipping Volume (sea ready) | m <sup>3</sup> | 12.78 |
| Weight*                     | Kg             | 4350  |

\*Standard build with all fluids except fuel

## REFERENCE STANDARDS

JCB Generators are CE certified and conform to the following Directives (subject to a country requiring such standard):

- EN 12100, EN13857, EN60204
  - 2006/42/CE Machinery safety
  - 2014/35/EU Low voltage
  - 2014/30/EU Electromagnetic compatibility
  - 2000/14/EC Sound Power Level (amended by 2005/88/EC)
  - 97/68/EC Emissions(amended by 2002/88/EC & 2004/26/EC)
  - Power according to ISO 8528 and ISO 3046
  - Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046
- Information based on standard specification equipment unless otherwise stated.