



# JCB DIESEL GENERATOR TECHNICAL SPECIFICATIONS



## G80QI

| ELECTRICAL      |                |              |                |
|-----------------|----------------|--------------|----------------|
| FREQUENCY       | VOLTAGE        | PRIME        | STAND BY       |
| 50Hz 3PH        | 415 / 240V     | 80kVA / 64kW | 88kVA / 70.4kW |
| Rated Speed     | 1500RPM - 50Hz |              |                |
| Circuit Breaker | 3 pole         |              |                |
| Power Factor    | 0.8 - 3 phase  |              |                |

All ratings to standard reference conditions ISO8528

| ALTERNATOR                      |                                     |
|---------------------------------|-------------------------------------|
| Poles                           | 4 pole                              |
| Winding Connections             | Star                                |
| Insulation                      | Class H                             |
| Enclosure                       | IP23                                |
| Exciter System                  | Self-regulating brushless           |
| Voltage Regulator               | AVR                                 |
| Steady State Voltage Regulation | +/- 1.0%                            |
| Bearing                         | Single bearing sealed               |
| Coupling                        | Flexible disc                       |
| Cooling                         | Direct drive centrifugal blower fan |

| MAXIMUM LOAD ACCEPTANCE IN A SINGLE STEP |
|--|
| 75%                                      |

**Prime:** This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

**Standby:** This rating is for the supply of continuous electrical power, at variable load, in the event of a utility power failure. No overload is permitted.

| <b>ENGINE</b>            |                    |                       |
|--------------------------|--------------------|-----------------------|
| Make & Model             |                    | <b>JCB 448TG-72</b>   |
| Output Rating            | kW                 | 72                    |
| Fuel                     |                    | Diesel                |
| Injection                |                    | Direct                |
| Aspiration               |                    | Turbo Charged         |
| Cylinders                |                    | 4                     |
| Displacement             | l                  | 4.8                   |
| Cooling                  |                    | Water                 |
| Engine Oil Specification |                    | API CH415W40          |
| Compression Ratio        |                    | 17.2:1                |
| Engine Oil Capacity      | l                  | 14                    |
| Oil Consumption          | % of fuel consumed | <0.1                  |
| Coolant capacity         | l                  | 18                    |
| Governor                 |                    | Mechanical            |
| Air Filter               |                    | 2 stage paper element |
| Fuel Consumption         |                    |                       |
| 75% Load Prime           | l/h                | 14.3                  |

| <b>STARTING SYSTEM</b> |    |     |
|------------------------|----|-----|
| Starter Motor          | kW | 4.2 |
| Battery Capacity       | Ah | 110 |
| Auxiliary Voltage      | V  | 12  |

| <b>EXHAUST SYSTEM</b>            |      |     |
|----------------------------------|------|-----|
| Maximum Temperature 100% Standby | °C   | 571 |
| Exhaust Gas Flow 100% Standby    | Kg/h | 401 |
| Maximum Allowed Back Pressure    | mbar | 100 |

| <b>AIR SYSTEM</b>                                |      |     |
|--|------|-----|
| Maximum allowable restriction dirty air filter   | mbar | 80  |
| Air requirement for combustion at Standby rating | Kg/h | 383 |

| <b>FUEL SYSTEM</b>   |   |     |
|----------------------|---|-----|
| Diesel Specification |   | HSD |
| Fuel Tank Capacity   | l | 200 |

| <b>WEIGHT AND DIMENSIONS - CANOPY</b>                      |    |              |
|--|----|--------------|
| Length   | mm | 2850         |
| Width  | mm | 1100         |
| Height   | mm | 1650         |
| Dry Weight ( Standard Build inclusive of coolant and oil ) | Kg | 1780         |
| Sound Level @1m  | dB | Less Than 75 |

| <b>CONTROL PANEL</b> |         |                 |
|----------------------|---------|-----------------|
| Panel                | mm      | 1.6 Sheet Steel |
| Controller           | Deepsea | Integrated      |
| MCCB                 | Amp     | 125             |

| <b>Display parameters</b>                  | <b>Audio-Visual warning</b> | <b>Shut-down with Audio-visual annunciation</b> |
|--|-----------------------------|---|
| Engine RPM                                 | Low Oil pressure            | Low Oil Pressure                                |
| Coolant temperature                        | High Coolant temp.          | High coolant temp.                              |
| DG set hours run                           | Fail to start.              | Low Fuel level                                  |
| Fuel level Indication %                    | Low Battery Voltage         | Engine Over speed                               |
| Battery Voltage                            | High Battery Voltage        | Engine under speed                              |
| Gen. Volts ( Phase-neutral & Phase-Phase ) | Over Voltage                | Over Current                                    |
| Gen. Current ( Amps.)                      | Under Voltage               | Under voltage                                   |
| Gen. Frequency ( Hz.)                      | Low fuel level              | Over voltage                                    |
| Power factor                               | Fail to stop                | Over frequency                                  |
| KVAr                                       | Charging alt. Failure       | Under frequency                                 |
| kW   |                             | Water in Fuel                                   |
| kVA  |                             | Emergency Stop                                  |
| Charging Alternator Voltage                |                             |   |
| Real time Clock                            |                             |   |

- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO8528
- Power according to ISO3046
- Information based on standard specification equipment unless otherwise stated
- Conformance Standards IS 1460,ISO 8528,ISO 3046,IS 13018
- Fuel Consumption data is based on Diesel having specific gravity of 0.85 & conforming to IS 1460 & fuel consumption tolerance is +5%
- Oil consumption data is based on oil having Specific gravity of 0.89

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**NEW** JCB GENERATORS



\*T&C Apply.

**SUPPORTING LIFE 24x7**

Available Range: 63 kVA - 200kVA



## SUPPORTING YOUR POWER NEEDS

JCB Power Products offer an extensive range of high specification diesel generators to meet the customers' requirements for any power application globally. Each JCB generator is designed to the highest specification to deliver outstanding reliability, class-leading performance and increased efficiency.

JCB Generators offer power solutions ranging from 8 kVA to 3300 kVA, meeting all requirements globally.

Backed by finest product support team for the entire product range, JCB Generators are trusted across the world to deliver power applications. The comprehensive range of generators provide support to residential properties, hospitals, offices, educational institutions, hotels & restaurants, commercial & agricultural sector, food industry and many more.



Housing Societies



Rental



Hospitals



Educational Institutions



Hotels



Real Estate



SMEs



Constructions

# 125 kVA Generator



## Fuel Efficient

- Lowest cost per hour
- Save more than ₹2,75,000\* with JCB 125 kVA on 5000 hours running
- Save over ₹1,65,000\* with JCB 160 kVA on 5000\* hours running



## Best-in-class Aesthetics

- Curved edges
- Built-in silencer
- Nine stage powder paint finish for both canopy and skid



## Compact in Size

- Easy to load and manoeuvre between sites
- Built-in silencer and best LAT



## Single Window Product Support

- Product support for entire product range through world-class dealer network



## Safe and Sturdy

- Complete body earthing
- External and internal emergency stop button
- Top vent and rain cap
- Designed to work in extreme environment (over 51° C)
- Highest block loading capacity (7.2 litre engine)
- Strong and durable doors



\*T&C Apply.



### FUEL EFFICIENT, RELIABLE AND ECONOMICAL CPCB II COMPLIANT ENGINE

Economical running cost results up to 10% saving of fuel than competitors.

1



### COMPACT IN SIZE, ACOUSTIC ENCLOSURE

Being the most compact generators in its class, JCB Generators save huge floor area clubbed with features of best LAT conditions and a built-in silencer.

2



### DESIGNED TO WORK IN EXTREME ENVIRONMENTAL CONDITIONS

JCB Generators ensure trouble free performance even in extreme environment. The Generators are designed to work in ambient temperature (over 51° C), better than any other competitor.

3



### HIGHLY REPUTED AND PROVEN COMPONENTS

Mecc Alte alternators are known for their light weight body, small size, better efficiency and best-in-class voltage regulation. Renowned deep-sea controller with user-friendly interface and large screen, ensure easy monitoring and programming performance.

4



### EASE OF MAINTENANCE

Regular checks can be carried out from one side of the engine thus, ensuring safe & easy maintenance. Removable side panel for easy alternator access, end panel for radiator maintenance. Heavy-duty removable service doors provide excellent access to key areas of your generator.

5

# TOP 10 REASONS TO BUY



6

### SUPERIOR FILTRATION SYSTEM

Two stage filtration system including water separator protects your investment even in the poorest conditions.



7

### INTERNAL RESIDENTIAL SILENCER

Unlike others, it not only boasts of great looks but ensures safety too.



8

### BEST-IN-CLASS AESTHETICS

Phosphate dipped nine stage powder paint finish for excellent anti-corrosion and UV resistance for canopy as well as the skid. Unique smooth curved edges enhances look.



9

### SAFEST TO OPERATE, MAINTAIN & STORE

Internal fuel fill point for improved security with easy to access neck. Top vent for releasing hot air. External and internal emergency stop buttons. Complete canopy and skid earthing.



10

### WORLD-CLASS PRODUCT SUPPORT

24x7 service support ensuring you to get the best backup in the business. Single window support for the complete product range through our world-class dealer network.





# JCB POWER PRODUCTS INDIA EXPORTS TO OVER 70+ COUNTRIES!



made in **INDIA**  
for the **WORLD**



## JCB QI CPCB II Compliant Diesel Genset

| Genset Model                               | G63QI              | G80QI              | G100QI                     | G125QI                     | G160QI                     | G180QI                     | G200QI                     |
|--|--------------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Prime Power Rating (kVA/ kW <sub>e</sub> ) | 63/50.4            | 80/64              | 100/80                     | 125/100                    | 160/128                    | 180/144                    | 200/160                    |
| Current Amp at 0.8 pf (lag)                | 87.5               | 111.2              | 139                        | 174                        | 223                        | 250                        | 278                        |
| Engine Model                               | ecoMAX 448TG-60    | ecoMAX 448TG-72    | ecoMAX 448TAG-92           | 125kVA Mech CPCB II        | 160kVA Mech CPCB II        | 180kVA Elec CPCB II        | 200 kVA Elec CPCB II       |
| kWm / bhp                                  | 60 / 82            | 72 / 98            | 92 / 125                   | 114.8/156                  | 146.5 / 199                | 164/223                    | 182/248                    |
| No. of Cylinders                           | 4                  | 4                  | 4                          | 6                          | 6                          | 6                          | 6                          |
| Displacement/Cubic Capacity (litres)       | 4.8                | 4.8                | 4.8                        | 7.2                        | 7.2                        | 7.2                        | 7.2                        |
| Bore x Stroke                              | 106 x 135          | 106 x 135          | 106 x 135                  | 105 x 137                  | 105 x 137                  | 105 x 137                  | 105 x 137                  |
| Compression Ratio                          | 17.2:1             | 17.2:1             | 17.2:1                     | 16.8:1                     | 16.8:1                     | 16.8:1                     | 16.8:1                     |
| Cooling                                    | Radiator           | Radiator           | Radiator                   | Radiator                   | Radiator                   | Radiator                   | Radiator                   |
| Aspiration                                 | Turbocharged       | Turbocharged       | Turbocharged & Aftercooled | Turbocharged & Aftercooled | Turbocharged & Aftercooled | Turbocharged & Aftercooled | Turbocharged & Aftercooled |
| Governing                                  | Mechanical         | Mechanical         | Mechanical                 | Mechanical                 | Mechanical                 | Electronic                 | Electronic                 |
| Lube Oil Sump Capacity (litres)            | 13.5               | 13.5               | 13.5                       | 19.8                       | 19.8                       | 20.2                       | 20.2                       |
| Alternator Make                            | Mecc-alte          | Mecc-alte          | Mecc-alte                  | Mecc-alte                  | Mecc-alte                  | Mecc-alte                  | Mecc-alte                  |
| Enclosure Protection                       | IP23               | IP23               | IP23                       | IP23                       | IP23                       | IP23                       | IP23                       |
| Frequency/rpm                              | 50 Hz/1500 rpm     | 50 Hz/1500 rpm     | 50 Hz/1500 rpm             | 50 Hz/1500 rpm             | 50 Hz/1500 rpm             | 50 Hz/1500 rpm             | 50 Hz/1500 rpm             |
| Insulation                                 | Class H            | Class H            | Class H                    | Class H                    | Class H                    | Class H                    | Class H                    |
| Voltage Regulation                         | +/- 1%             | +/- 1%             | +/- 1%                     | +/- 1%                     | +/- 1%                     | +/- 1%                     | +/- 1%                     |
| Dimensions L x W x H (mm)                  | 2500 x 1230 x 1800 | 2500 x 1230 x 1800 | 2500 x 1230 x 1800         | 3750x1300x1750             | 3750x1300x1750             | 4000x1300x2050             | 4000x1300x2050             |
| Fuel Tank Capacity                         | 180                | 180                | 180                        | 310                        | 310                        | 310                        | 310                        |
| Dry Weight (kg)                            | 1370               | 1470               | 1550                       | 2150                       | 2300                       | 2900                       | 2900                       |



Stay Connected 24x7



Conformance standards: ISO 8528, ISO 3046, BS 5514 & IS 4722

#Standard for 180 & 200 kVA only \*T&C Apply.

LiveLink® with JCB 180-200 kVA Gensets

# THE POWER OF INTELLIGENCE



Stay Connected 24x7



For the first time in the industry, comes a Genset range of 180-200 kVA, equipped with advanced telematics technology - LiveLink. Empowering you with critical information like fuel theft alerts, service reminders, and hours of operation etc, this range offers you all you need to illuminate your success story.

\*As a Standard Fitment