



DIESEL GENERATOR

STAGE IIIA

ELECTRICAL

| Frequency (Hz) | Phases | Voltage (V) | Prime | | Standby | | MCB Rating (A) | Minimum ATP Rating (A) | Rated Speed (RPM) |
|----------------|--------|-------------|-------|-----|---------|-----|----------------|------------------------|-------------------|
| | | | kVA | kW | kVA | kW | | | |
| 50 | 3 | 400/230V | 60 | 48 | 66 | 53 | 100 | 100 | 1500 |
| 60 | 3 | 480/277V | N/A | N/A | N/A | N/A | N/A | N/A | 1800 |

POWER FACTOR

| | |
|---------|-----|
| 3 Phase | 0.8 |
| 1 Phase | 1 |

MAXIMUM LOAD IMPACT*

| | |
|-----|----|
| kVA | 40 |
| kW | 32 |

*With 20% voltage and 10% frequency deviation @ 50Hz, 400V

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

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: Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the average load (variable) does not exceed 70% of the standby power rating. No overload is available.

Stage IIIA models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0)1889 272200. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.

| CANOPY | | |
|--|--|---|
| Lockable Maintenance Access Doors | | ● |
| Control Panel Viewing Window | | ● |
| Oversized Fork Pockets | | ● |
| Welded Single Lift Point | | ● |
| Bunding | | ● |
| Certified 4 Point Lift | | ● |
| High Density Fire Retardant Foam | | ● |
| Yellow Paint | | Δ |
| White Paint | | ● |
| Heavy Duty Rental Base | | ● |
| Drag Bar | | Δ |
| Galvanised Steel Canopy | | ● |
| Standard: ● Not Available: x Optional: Δ | | |

| ALTERNATOR ECP32-2M4 B | |
|---------------------------------|-------------------------------------|
| Poles | 4 |
| Winding Connections | Star |
| Insulation | Class H |
| Enclosure | IP23 |
| Exciter System | Self-regulating brushless |
| Voltage Regulator | AVR |
| Steady State Voltage Regulation | +/- 1% |
| Bearing | Single bearing sealed |
| Coupling | Flexible disc |
| Cooling | Direct drive centrifugal blower fan |
| Coating | Total Protection + |

| STARTING SYSTEM | | |
|---------------------|----|------|
| Starter Motor | kW | 4.20 |
| Battery Capacity | Ah | 120 |
| Number of Batteries | | 1 |
| Auxiliary Voltage | V | 12 |

| ENGINE | | |
|-----------------------------|----|---------------------------------|
| 1500 RPM | | |
| Net Output Rating (PRP) | kW | 54 |
| Net Output Rating (Standby) | kW | 56 |
| 1800 RPM | | |
| Net Output Rating (PRP) | kW | N/A |
| Net Output Rating (Standby) | kW | N/A |
| Manufacturer and Model | | |
| | | JCB 448 G-TC 60 |
| Fuel | | |
| | | Diesel |
| Injection | | |
| | | Direct |
| Aspiration | | |
| | | Turbo Charged |
| Cylinders | | |
| | | 4 |
| Bore and Stroke | | |
| | | mm 103 x 135 |
| Displacement | | |
| | | L 4.77 |
| Cooling | | |
| | | Water |
| Engine Oil Specification | | |
| | | API CH4 |
| Compression Ratio | | |
| | | 18 : 1 |
| Engine Oil Capacity | | |
| | | L 15.00 |
| Coolant Capacity | | |
| | | L 16.00 |
| Governor | | |
| | | Mechanical |
| Air Filter | | |
| | | Two stage Paper Element |
| Engine Oil Consumption | | |
| | | 100% Load 0.1% of fuel consumed |

| FUEL SYSTEM | | |
|---------------------------------------|---|-------|
| Diesel Specification | | EN590 |
| Standard Capacity Fuel Tank | L | 280 |
| Extended Capacity Fuel Tank(Optional) | L | 560 |

FUEL CONSUMPTION

| | | | |
|-------------------|-----|------|-------|
| 100% Load Prime | L/h | 50Hz | 15 |
| 75% Load Prime | L/h | | 11.9 |
| 50% Load Prime | L/h | | 8.20 |
| 100% Load Standby | L/h | | 15.50 |
| 100% Load Prime | L/h | 60Hz | N/A |
| 75% Load Prime | L/h | | N/A |
| 50% Load Prime | L/h | | N/A |
| 100% Load Standby | L/h | | N/A |

EXHAUST SYSTEM

| | | | |
|----------------------------------|---------------------|------|--------|
| Maximum Temperature 100% Standby | °C | 50Hz | 511.00 |
| Exhaust Gas Flow 100% Standby | m ³ /min | | 13.43 |
| Maximum Allowed Back Pressure | kPa | | 9.00 |
| Exhaust Discharge Size | mm | 80 | |

AIR SYSTEM

| | | | |
|-------------------------------------|-------------------|------|--------|
| Intake Air Flow 100% Standby | m ³ /h | 50Hz | 301.00 |
| Total Cooling Air Flow 100% Standby | m ³ /s | | 3.30 |

SOUND PRESSURE

| | | | |
|----------|------|-------|----|
| LpA (7m) | 50Hz | dB(A) | 67 |
|----------|------|-------|----|

MECHANICAL FEATURES

| | |
|---------------------------------|---|
| Cooling Pack | ● |
| Air Filter | ● |
| Mechanical Governor | ● |
| Low Oil Pressure Switch | ● |
| Coolant Temperature Sender | ● |
| Oil Temperature Sender | ● |
| Radiator Guards | ● |
| Hot Component Guards | ● |
| Manual Oil Drain Pump (Canopy) | Δ |
| Water Jacket Heater | Δ |
| Pre-Filter with Separator | ● |
| Fuel Level Sender | ● |
| Internal Fuel Fill (Belly Tank) | ● |
| 3 Way Fuel Valve | ● |
| Residential Silencer | ● |
| Air Shut-Off Valve | Δ |
| Electronic Governor | x |
| Spark Arrestor | Δ |

Standard: ● Not Available: x Optional: Δ

ELECTRICAL FEATURES

| | |
|---|---|
| AVR DSR | ● |
| AVR DER | x |
| Winding Protection Standard | x |
| Winding Protection Standard + | x |
| Winding Protection Grey | x |
| Winding Protection Total | x |
| Winding Protection Total + | ● |
| MAUX | ● |
| PMG | Δ |
| Anti-Condensation Heater | Δ |
| 3 Pole Moulded Case Circuit Breaker | x |
| 4 Pole Moulded Case Circuit Breaker | ● |
| Earth Leakage Protection (Switchable) | ● |
| Preparation for Earth Spike | ● |
| Optional Voltages | Δ |
| Emergency Stop Button (Control Panel) | ● |
| External Emergency Stop Button | ● |
| AGM Battery | Δ |
| Socket Panel (1 x 32A – 3ph, 3 x 32A – 1ph) IP44 | x |
| Socket Panel (1 x 63A – 3ph, 3 x 32A – 1ph) IP44 | Δ |
| Socket Panel (1 x 63A – 3ph, 2 x 32A – 3ph, 3 x 32A – 1ph) IP44 (1 x 125A – 3ph) IP67 | x |
| Bund Alarm / Shut down | Δ |
| Remote Display | x |
| 50Hz / 60Hz Switch | Δ |
| Standard: ● Not Available: x Optional: Δ | |

BATTERY FEATURES

| | |
|---------------------|------------------|
| Battery Isolator | ● |
| Battery Type | SEALED LEAD ACID |
| Battery Size (Ah) | 120 |
| Number of Batteries | 1 |
| Battery Charger | Δ |

JCB COMMUNICATION AND CONTROL

| | |
|--|---|
| 7320 MKII | ● |
| 8610 MKII (Synchronisation) | Δ |
| 8620 (Synchronisation) | Δ |
| LiveLink for Power (MKII Panel Only) | ● |
| Standard: ● Not Available: x Optional: Δ | |

WEIGHT AND DIMENSIONS

| | | |
|-----------------------------|----------------|------|
| Length | mm | 3334 |
| Width | mm | 1200 |
| Height | mm | 1912 |
| Shipping Volume (sea ready) | m ³ | 7.70 |
| Weight* | Kg | 2045 |

*Standard build with all fluids except fuel

CE PACK

| | |
|--|---|
| EMC Certification | ● |
| Hot Guards | ● |
| Belt Guards | ● |
| Sound Power Decal | ● |
| EU Declaration for Engine Emissions | ● |
| Complete Machine Declaration of Conformity | ● |
| Standard: ● Not Available: x Optional: Δ | |

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
 - 2006/95/EC Low voltage
 - 2004/108/CE 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.