

DIESEL GENERATOR 125 kVA

IDEAL USAGE

Projects that require efficient and reliable temporary power, including industrial locations.

APPLICATIONS

- Powering locations where permanent electricity supply is not available - such as temporary accommodation, construction or other remote sites
- Replacing utility power supply to industrial equipment - motors, pumps, conveyors and other equipment
- Additional power for seasonal increases in demand such as manufacturing, distribution and storage



ELECTRICAL

| Frequency (Hz) | Phases | Voltage(V) | Prime | | Standby | | Rated Speed |
|----------------|--------|------------|-------|-----|---------|-----|-------------|
| | | | kVA | kW | kVA | kW | |
| 50 | 3 | 400/230V | 125 | 100 | 140 | 112 | 1500 |
| 60 | 3 | 480/277V | 125 | 100 | 140 | 112 | 1800 |

POWER FACTOR

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

RATINGS

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchased power. There is no limitation on the hours of operation and 10% overload 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 load does not exceed 70% of the standby power. Stage IIIA Transition & Stage V models are only emission compliant at 50 Hz Prime Power.

CANOPY

- Lockable Maintenance Access Doors
- Door Stays
- Forklift Protection Bumpers
- Control Panel Viewing Window
- Integral Fork Pockets
- Single Lift Point
- Bundling
- 4 Point Tie Down
- High Density Fire Retardant Foam
- White Paint (RAL 9010)
- Galvanised Steel Canopy

ALTERNATOR ECP34 - IL4 A

| | |
|--------------------------------|------------------------------|
| Poles | 4 |
| Winding Connections | Star |
| Insulation | Class H |
| Encloser | IP23 |
| Exciter System | Self Regulating brushless |
| Voltage Regulator | AVR |
| Steady State Voltage Regulator | +/- 1% |
| Bearing | Single bearing sealed |
| Coupling | Flexible doc |
| Cooling | Direct drive centrifugal fan |

ENGINE

| | | |
|----------------------------------|----------------------------|----------|
| | 1500 RPM | 1800 RPM |
| New Output Rating (PRP) | 113 kW | 113 kW |
| Net Output Rating (Standby) | 121 kW | 121 kW |
| Manufacturer and Model | JCB 448 G - TCA 120 | |
| Fuel | Diesel | |
| Injection | Direct | |
| Aspiration | Turbo Charged | |
| Cylinders | 4 | |
| Bore and Stroke | 103 x 135 mm | |
| Displacement | 4.77 L | |
| Cooling | Water | |
| Compression Ration | 18 : 1 | |
| Engine Oil Specification | API CH4 SAE 10W40 | |
| Engine Oil Capacity | 15:00 L | |
| Coolant Capacity | 16.00 L | |
| Governor | Electronic | |
| Air Filter | Paper Element | |
| Engine Oil Consumption | 100% 0.1% of fuel consumed | |
| | Load | |
| Exhaust Emission After Treatment | None | |
| Emission Standard | Stage IIIA Transition | |

ELECTRICAL FEATURES

MAUX Excitation
 4 Pole Moulded Case Circuit Breaker
 Earth Leakage Protection
 Preparation for Earth Spike
 External Emergency Stop Button
 Bund Alarm / Shutdown
 50 Hz / 60 Hz Switch
 Socket Panel (1x63A-3ph 3x32A - 1ph 1x32A - 3ph
 IP44 (1 x 125A - 3ph) IP67

MECHANICAL FEATURES

Cooling Pack
 Air Filter
 Electronic Governor
 Low Oil Pressure Switch
 Coolant Temperature Sender
 Oil Temperature Sender
 Water Jacket Heater
 Fuel Level Sender
 3 Way Fuel Valve
 Residual Silencer
 Racor Water/Fuel Separator

WEIGHT AND DIMENSIONS

Length 3334 mm
 Width 1200 mm
 Height 1912 mm
 Shipping Volume (sea ready) 7.70 m³
 Weight* 2150 Kg

*Standard build with all fluids except fuel

TYPICAL SOUND PRESSURE

dBa @ 7 50 Hz 68 dBa

STARTING SYSTEM

Battery Capacity 120 Ah
 Number of Batteries 1
 Auxillary Voltage 12 V

FUEL SYSTEM

Diesel Specification EN590
 Standard Capacity Fuel Tank 280 L

AIR SYSTEM

Intake Air Flow 100% Standby 50 Hz 550 m³/h
 Radiator Cooling Airflow 3.3 m³/h

BATTERY FEATURES

Battery Isolator
 Battery Type Sealed Lead Acid
 Battery Charger

EXHAUST SYSTEM

Maximum temperature 50 Hz 574 °C
 Exhaust Gas Flow 100% Standby 22.70 m³/min
 Maximum Allowed Back Pressure 10.00 kPa
 Exhaust Discharge Size 100 mm

COMMUNICATION AND CONTROL

DSE 7310 Auto Start controller
 LiveLink for Power
 Analogue Hour Meter

FUEL CONSUMPTION

100% Load Prime 50 Hz 30.90 L/h
 75% Load Prime 23.50 L/h
 50% Load Prime 15.40 L/h
 100% Load Standby 31.80 L/h

100% Load Prime 60 Hz 30.00 L/h
 75% Load Prime 22.30 L/h
 50% Load Prime 14.50 L/h
 100% Load Standby 31.80 L/h

CE PACK

EMC Certification
 Hot Guards
 Belt Guards
 Sound Power Decal
 EU Declaration for Engine Emissions
 Complete Machine Declaration of Conformity

REFERENCE STANDARDS

JCB Generators are CE certified and conform to the following directives (subject to a country requiring such standards)

- EN 12100, EN13857, EN60204
- 2006/42/ce Machine 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 100 mbar, 25, 30% relative humidity

Information based on standard specification equipment unless otherwise stated*

