

## **Specification for 1 Unit Generator**

### **Overall Description**

- Product Category: Electrical Power Generators with canopy
- Applications: Industrial
- Fuel Type : Diesel; Natural Gas
- Portability: Permanent
- Number of Cylinders: 4
- Power Rating – Wattage: 500000 watts
- Power Rating – VA : 112.5 kVA
- Frequency: 60 Hz
- Voltage: 460

### **ENGINE**

- Engine type - stroke: 4
- Displacement (cc): 4400
- Cylinder formation: In-line
- Cooling system: Liquid
- Aspiration: Turbo Intercooler
- Power output (kW): 101.7
- Power output RPM: 1800
- Fuel injection system: Direct
- Speed governor, type : Electrical
- Fuel tank, volume (l): 260

### **ALTERNATOR**

- Rated power output (kVA): 112.5
- Rated power output (kW): 90
- Power factor: 0.8
- Voltage (V) : 460
- Phases : 3
- Output (A): 162.5
- Alternator rpm: Other
- Frequency (Hz) : 60
- Cooling system :AIR

### **Environmental Information**

- Emission regulation schedule EU Stage II
- Other emission regulation schedule :35

- Noise level at 1 m (silencer fitted) (dB(A)) :20.2
- Fuel consumption at 75% load (l/h)
- CO2 emissions at 75% load (g/h)

#### Standard Equipment:

- A/C circuit breaker, type
- Basic maintenance kit: Min. 4 x oil filters, 2 x air filters, 2 x fuel filters
- Earthing facility
- Emergency stop
- Fuel filter
- Installation instructions and evt. Drawings, English/French/Spanish
- Lifting points for handling
- Min. Voltmeter, ammeter, hour meter, Hz meter, water temp gauge/indicator (where applicable)
- Oil filter
- Overheating protection
- Prime power according to ISO 8528 or equivalent
- Protection class, min. IP 23
- Voltage regulator
- Air filter
- Brushless type
- Electric starter with key and battery
- Exhaust with suitable piping and residential silencer
- Fuel tank. Integrated or separate, suitable for continuous operation of min. 8 hours at rated capacity. State capacity, litres. Fuel level gauge. Including all necessary pipework, connections etc.
- Possibility for connection to external tank.
- Insulation to min. IEC 60085 >155 °C, (F) or equivalent
- Low oil pressure protection, automatic shut down
- Mounted on anti-vibration mounts
- Operators and maintenance manual, English/ French/Spanish
- Overload protection
- Prime rating according to NTP conditions
- Tool kit

#### Optional Equipment:

- Automatic mains failure power generating set

- (ATS) Automatic transfer switch + change over
- switch position for MAINS / OFF / GENERATOR SET
- additional fuel filter in line
- manual transfer switch
- slow speed trailer
- soundproof canopy 70dB(A) at 7 m.
- spare parts & maintenance kit for 2500 hours operation