



Ettes Power Gas Generating Set can be driven by world famous gas engines of Cummins, Perkins, MAN, MWM-Deutz, JDEC 190 and Zibo 300 series, coupled with Stamford, Leroy Somer or Siemens alternators, power ranging from 20kva upto 4000kva. The applicable fuel can be methane base gases such as natural gas, biogas, marsh gas, coal-bed gas, coal mine gas, shale gas, landfill gas and low BTU gas such as biomass/syngas, coal gas, coking oven gas etc. By assimilating gas generation and control technologies of Ignitions System, Governor System from YSD, WOODWARD, MOTORTECH, HEINZMANN, ALTRONIC, IMPCO, STITT, our gas generator set can work at reliable performance, easy for maintenance, much longer life-span and very economic in price. Furthermore, special requirements for CHP System (combined heat and power), ATS, Soundproof Canopy, Parallel & Synchronization panel are optional. Ettes Power gas generator set enjoy hot ready markets in domestic markets and overseas markets including South Africa, South America, Europe, Middle East and Southeast Asia countries etc.

| Main Technical Data of 31KVA Cummins Natural Gas Generator   |  |   |  |
|--|--|---|--|
| <b>Gas Genset</b>  | Genset Model   | <b>EC-31N</b>   |  |
|  | Rated Power (kW/kVA)   | 25/31   |  |
|  | Rated Current (A)  | 45  |  |
|  | Sound Level  | With Silencer 82db @ 1m, With soundproof canopy 70db @ 1m       |  |
| <br><b>Gas Engine</b> | Gas Engine Manufacture   | CUMMINS   |  |
|  | Gas Engine Model   | 4B3.9-G   |  |
|  | Cooling Type   | Water Cooled by Radiator  |  |
|  | Rated Speed (r/min)  | 1500 (50hz) / 1800 (60hz)                                       |  |
|  | Starting Method  | 24VDC Electrical  |  |
|  | Fuel   | Natural gas, Coal Mine Gas, Oil Field Gas, Shale Gas etc        |  |
|  | Bore× Stock (mm)   | 102*120   |  |
|  | Displacement (L)   | 3.9   |  |
|  | Compression Ratio  | 10:1  |  |
|  | Cylinder numbers and Type  | 4 in Line   |  |
|  | Ignition System  | AFS from Canada or Equal  |  |
|  | Governing System/Actuator  | Woodward from USA, Heinzmann or Motortech from Germany or Equal |  |
|  | Gas Train  | Manual cut-off valve  |  |
|  |  | 1~10kPa pressure gauge  |  |
|  |  | Gas filter  |  |
|  |  | Safety Solenoid valve   |  |
|  |  | Zero pressure regulator   |  |
| Flame arrestor (optional)  |  |   |  |
| Ignition Type  | Spark Plug Ignition  |   |  |
| Intake Gas Pressure Required (kPa)   | 2~8kPa   |   |  |
| Gas Consumption (m <sup>3</sup> /kw.h)   | 0.25-0.3   |   |  |
| Oil Consumption (g/kw.h)   | ≤0.5 (oil grade SAE 40)  |   |  |
| <br><b>Alternator</b> | Alternator Brand   | Leroy Somer or Marathon or Equal                                |  |
|  | Alternator Model   | LSA Series  |  |
|  | Frequency (HZ)   | 50/60   |  |
|  | Rated Voltage (V)  | 400/230, 480/240 (other voltages are available)                 |  |
|  | Excitation Method  | Self-excited, Brushless, AVR                                    |  |
|  | Phase/Connection   | 3 Phase 4 Wire, Y-connection                                    |  |
|  | Power Factor ( COS φ )   | 0.8   |  |
|  | Protection Level/Insulation Class  | IP23/H  |  |
| <b>Control System</b>  | The standard control panel is with functions including manual keys, emergency stop, necessary alarms, interlocks, protections and monitors. Showing Genset running parameters in LCD Display by Deepsea or Smart-gen Controller. |   |  |
| <b>Options</b>   | PMG System (for the alternator)  |   |  |
|  | Steel Soundproof Canopy/Container  |   |  |
|  | Oil and Water Heater   |   |  |
|  | Auto Oil Supply System (additional oil tank)   |   |  |
|  | Heat Recovery from Exhaust gas and Jacket water  |   |  |
|  | ATS System, Synchronization Parallel Panel, Remote PC Monitor  |   |  |
|  | Remote Radiator  |   |  |
| <b>Dimension</b><br>(for Open Genset, mm)  | 1950*1000*1450   |   |  |
| <b>Weight</b> (for Open Genset, KG)  | 1010   |   |  |

