



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 50KVA Cummins Biogas Generator			
<b>Gas Genset</b>	Genset Model	<b>EC-50B</b>	
	Rated Power (kW/kVA)	40/50	
	Rated Current (A)	72	
	Sound Level	With Silencer 82db @ 1m, With soundproof canopy 70db @ 1m	
 <b>Gas Engine</b>	Gas Engine Manufacture	CUMMINS	
	Gas Engine Model	4BTAA3.9-G	
	Cooling Type	Water Cooled by Radiator	
	Rated Speed (r/min)	1500 (50hz) / 1800 (60hz)	
	Starting Method	24VDC Electrical	
	Fuel	Biogas, Landfill Gas, Sewage Gas and other methane 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	
Biogas Filter	KromSchroeder from Germany or Equal		
Intake Gas Pressure Required (kPa)	2~8kPa		
Gas Consumption (m <sup>3</sup> /kw.h)	0.5-0.6		
Oil Consumption (g/kw.h)	≤0.5 (oil grade SAE 40)		
 <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>CHP System</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> (for Open Genset, mm)		1950*1000*1450	
<b>Weight (for Open Genset, KG)</b>		1010	

