

Ettes Power is one of biggest generator set packagers and assemblers in China. Ettes Power Gas Generator 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 5600kva. The applicable fuel can be methane base gases such as natural gas, biogas, marsh gas, coalbed 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 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 based on wonderful quality. 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.

WE UPGRADE GAS ENGINES



WOODWARD

### Main Technical Data of Biogas Generator EJ-563B

<b>Gas Gen-Set</b>	Genset Model	EJ-563B					
	Rated Power (kw/kva)	450/563					
	Manufacturer/Assembler	ETTES POWER					
<p><b>Gas Engine</b></p>	Gas Engine Manufacture	CNPC JICHAO ENGINE CO LTD					
	Gas Engine Model	12V190ZLDZ					
	Engine Rated Power (kw/hp)	500/680					
	Applicable Fuel	Low BTU Gas including Biogas, Landfill Gas, Digester Gas, and Sewage Gas etc.					
	Type	Four Stroke, Spark Ignition, Turbocharger and after-cooled, Outer Mixing					
	Cooling Way	Forced Water Cooling					
	Cooling Method	Standard: Open Cooling System by Heat Exchanger + Cooling Tower Optional: Closed Water Cooling by Fan Radiator					
	Starting Method	24VDC Electrical					
	Bore × Stroke (mm)	190×210					
	Displacement (L)	71.5					
	Compression Ratio	8:1					
	Average Speed of Piston (m/s)	7.17					
	Cylinder numbers and Type	12.Vee, 60° Angle					
	Governor/Actuator	Woodward or HEINZMANN					
	Ignition System:	Motortech or Altronic					
	Spark Plugs:	Motortech, Altronic, STITT or equal					
	Air-Fuel Control	EGS Automatic A/F Control					
	Mixer:	IMPCO or equal					
	Rated Speed (r/min)	1000 (50HZ)/1200(60HZ)					
	Idle Speed (RPM)	700					
	Direction of Rotation	Counter-clockwise					
	Oil Consumption (g/kw.h)	≤0.8					
	Lube Oil Capacity (L)	200					
Heat Consumption(kj/kw.h)	≤9800						
Exhaust Gas Temperature	≤630°C						
Intake Gas Pressure Required (kPa)	100~400						
Noise Level (Db)	≤110 (without silencer and soundproof container)						
<p><b>Alternator</b></p>	Alternator Brand	Siemens or Equal					
	Alternator Model	1FC6 Series					
	Type	Double Bearings					
	Frequency (HZ)	50/60					
	Rated Voltage (V)	400/230(50HZ), 480/240(60HZ) Other Special Voltages are available					
	Power Factor (Cosφ)	0.8					
	Type	Insulation Class IP22/IP23, Protection Class H					
	Excitation Method	Self-excited, Brushless					
Voltage Regulation	AVR						
<b>Control System</b>	<b>Standard Control System:</b> advanced SIVAC control panel by Siemens Technology, adopting control module of ComAp Intelilite or Deepsea DSE Series, with functions including manual keys, alarms, protections, auto start and shut down, showing running parameters in LCD Display. Engine SCADA System, Communications protocol RS485						
	<b>Options:</b> Auto parallel synchronization control panel, Remote control system etc.						
<b>Size and Weight</b>	Net Weight (KG)	11300					
	Dimension (L×W×H, mm)	5120×2200×2312 (based on open cooling system)					
Main Electronic Performance Data							
Voltage							
Frequency							
Stabilized Regulation	Instantaneous regulation	Recovery Time	Fluctuation	Stabilized Regulation	Instantaneous regulation	Recovery Time	Fluctuation
≤ ±2%	≤ ±5%	1s	≤ 0.5%	≤ 0.5%	≤ ±10%	<5s	≤ 0.5%

★ The data herein can vary depending on individual production requirements or due to improved technology.

