



Ettes Power is one of the leading generator-set assemblers and suppliers in China. Ettes gas genset can be driven by world top engines of Cummins, Lovol, MAN, MWM-Deutz, CNPC 190 and Low Speed 300 series, coupled with Stamford, Leroy Somer or Siemens alternators, ranging from 20kW upto 4500kW. 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 syngas-biomass, coking oven gas etc. By assimilating advanced gas engine control technology from Europe, Ettes gas genset can work at reliable performance, easy for maintenance and longer life-span. Furthermore, special requirements for CHP System, ATS, Soundproof Container and Parallel & Synchronization are available. Ettes Power gas generators enjoy hot ready markets in more than 70 countries all over the world including regions of Latin America, Europe, Middle East, Africa and Southeast Asia etc.





Main Technical Data of Lovol Natural Gas Generators (30kW~80kW)					
Genset	Genset Model	EL-30N	EL-50N	EL-80N	
	COP (kW/kVA)	30/38	50/63	80/100	
	Rated Current (A)	54	90	144	
	Manufacturer	ETTES POWER			
Gas Engine	Engine Maker	LOVOL (ex-Perkins)			
	Gas Engine Model	1004NG	1006NG	1006-G6TAG	
	Cylinder numbers and Type	4 in Line	6 in Line	6 in Line	
	Displacement (L)	3.99	5.98	5.98	
	Bore× Stock (mm)	100*127	100*127	100*127	
	Туре	Four Stroke, Water Cooling, Spare Ignition, 12/24V DC Starting			
	Air Intake Way	Naturally Aspirated	Naturally Aspirated	Turbocharged	
	Rated Speed (r/min)	1500 (50Hz)/1800(60Hz)			
	Compression Ratio	10.5:1			
	Gas Train	Ball Valve, Solenoid Valve, Pressure Regulator Valve and Gas Filter etc.			
	Fuel	Natural gas including PNG, CNG, LNG, Oilfield Gas, Coalmine Gas, Shale Gas etc.			
	Intake Gas Pressure (kPa)	3~100			
	Gas Consumption ( m³/kW.h)	≤0.3			
	Oil Consumption (g/kW.h)	≤0.5			
Alternator	Frequency (Hz)	50/60			
	Rated Voltage (V)	400/230(50Hz), 480/270(60Hz)			
	Excitation Method	Self-excited, Brushless, AVR			
	Phase/Connection	3 Phase 4 Wire, Y-connection, 0.8 Power Factor (Cosφ)			
	Protection Level/Insulation Class	IP23/H			
Control System	The standard control panel is with functions including manual keys, alarms, protections, auto start and shut down, showing running parameters in LCD				
	Display by Deepsea or Smartgen Controller.				
	Auto parallel control(optional), Auto Synchronization system (optional), Remote PC Monitor (optional)				
Options	Options Soundproof Container, ATS, Parallel & Synchronization Control, CHP (Heat Recovery System), Biogas Pre-treatment Machinery				
<b>Dimension</b> (for Open Genset, mm)		1850*800*1430	2150*800*1430	2150*800*1430	
Weight (KG)		950	1100	1300	

## Remarks:

- Special voltages are available.
- Special requirements for Soundproof Container, ATS, Parallel & Synchronization Control, CHP and Biogas Pre-treatment Machinery are optional.
- The technical data are based on natural gas with a lower calorific value of 36MJ/Nm³, based on standard conditions according to ISO8528/1, ISO3046/1 and BS5514/1.
- The technical data is measured in standard conditions: Absolute atmospheric pressure: 100kPa, Ambient temperature: 25°C, Relative air humidity: 30%.
- The data herein can vary depending on individual production requirements or due to improved technology.

General Requirements for Natural Gas Quality						
Composition	Abbreviate	Limits	Remarks			
Methane number	MN	>80	For Lower value please consult ETTES POWER			
Calorific value	Ημ, Ν	>5.0 kWh / Nm³				
Chlorine	Cl	<80 mg / Nm <sup>3</sup> CH4				
Fluoride	F	<40 mg / Nm³CH4				
Total-chlorine fluoride	∑(CI,F)	<80 mg / Nm³CH4				
Dust<5μm		<10 mg / Nm <sup>3</sup> CH4				
Oil vapor		<400 mg / Nm³CH4	No condensation may occur in the mixture			
Silicon element	Si	<2 mg / Nm³CH4	For higher value please consult ETTES POWER			
Sulphur	S	<200 mg / Nm³				
Hydrogen sulphide	H <sub>2</sub> S	<150 ppm	For higher value please consult ETTES POWER			
Ammonia	NH <sub>3</sub>	<40 ppm or				
		<30 mg / Nm³				
Max. gas temperature	40°C					
Relative humidity	≤60%					







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Knowing it is Ettes Power

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