



Ettes Power is the leading manufacturer and supplier for diesel & gas generators from 20kW upto 4500kW. We use world top engines (Cummins, MAN, CAT-MWM, CNPC 190 Series and Low speed 300 Series etc.) to ASSEMBLE into complete-generator-set and CHP units. Ettes gensets enjoy hot markets in more than 70 countries all over the world including Latin America, Africa, Middle East, Europe and Asia markets.

190 Series gas engines are developed by cooperation with AVL from Germany and Austria. The engine assembling plant is affiliated to CNPC (China National Petroleum & Oil Corporation), those engines work extensively in 90% of China oil fields and coal mines, and enjoy hot markets in global.

Benefits of ETTES-CNPC 190 Series gas engines & Genset

- ◆ The engine performance is "Leading China" and "First class Global"
- ◆ Long history: produced by engines plant under control by CNPC (China National Petroleum & Oil Corporation), it is the first and the largest engine manufacture in China since 1953.
- Proven Technology: widely used in 90% of China Oil & Gas Fields, Coalmines, Vessels and other areas under severe working conditions.
- Fuel flexibility: designed for operation on a wide range of methane based gases including natural gas, biogas, oilfield gas, coal mine methane and shale gas and other special gas.
- ◆ Designed for intensive use (continuous duty)
- ◆ Capable of working with variable loads.
- ◆ Advanced technology of close-loop control, lean-burn and Mixing before turbo.
- ◆ Adopting highly intelligent gas control system of Woodward EGS or Motortech, the air fuel ratio can be automatically adjusted as per fluctuation of gas components.
- ◆ Adopting intelligent & digital ignition system from Motortech or Altronic.
- Adopting super-turbocharged technology from ABB.
- ♦ Heat Recovery system to realize CHP, Cogeneration and Distribution Energy.
- Integrated & modularized unit to facilitate easy transport and quick setup.
- ◆ Easy Maintenance in Low Cost.
- ◆ Ensured annually continuous working over 8000 hours.
- ♦ Longer life span of 15~20 years.







	Main Technical Data of Methane	Gas Generator EJ-700N			
	Genset Model	EJ-700N			
Gas Gen-Set	Rated Power (kW/kVa)	700/875			
	Manufacturer/Assembler	ETTES POWER			
	Gas Engine Manufacture	CNPC ENGINES ASSEMBLING PLANT			
	Gas Engine Model	G12V190ZLDT			
	Engine Rated Power (kW/hp)	800/1088			
	Applicable Fuel	Natural Gas (PNG, CNG, LNG), Oilfield Gas, Marsh Gas, Coalmir Bed Gas and Shale Gas etc.			
	Typical Features	Advanced close loop electrically controlled; Lean Burn Technology;			
		Mixing Before Turbocharger;			
	Туре	Water Cooled, Four Stroke, Spark Ignition, Turbocharger and after-cooled, Outer Mixing			
	Cooling Method	Standard: Open Cooling System by Heat Exchanger + Cooling To Optional: Closed Water Cooling by Fan Radiator			
	Starting Method	24VDC Electrical			
	Bore × Stroke (mm)	190×210			
	Displacement (L)	71.5			
Gas Engine	Compression Ratio	11:1			
	Average Speed of Piston (m/s)	10.5			
	Cylinder numbers and Type	12.Vee, 60° Angle			
	Governor/Actuator	Woodward or Heinzmann or Motortech			
	Ignition System	Motortech or Altronic or Equivalent			
	Air-Fuel Control	EGS Automatic A/F Control			
	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)	≤9500			
	Exhaust Gas Temperature	≤550°C			
	Intake Gas Pressure Required (kPa)	100~400			
	Noise Level (Db)	≤110 (without silencer and soundproof container)			

		Alternator Brand			Siemens or Equivalent					
	Alternator Model			1FC6 Series						
		Frequency (Hz)			50/60					
CIENAENIC	•				400	0/230(50Hz), 480/2	70(60Hz)			
SIEMENS		Rated Voltage (V)		Other Special Low Voltages and						
					High Voltage of 6.3kV, 6.6kV, 10.5kV, 13.8kV are available					
Alternator	Power Factor (Cosφ)			0.8						
			Туре		Insulation Class IP23, Protection Class H					
			Excitation Meth	od	Self-excited, Brushless					
		Voltage Regulati	on	AVR						
		Standard Control System: advanced SIVAC control panel by Siemens Technology, adopting control module of								
Control System		ComAp Intelilite Series, with functions including manual keys, alarms, protections, auto start and shut down,								
		showing running parameters in LCD Display.								
Control System		Engine SCADA System, Communications protocol RS485								
		Options: Auto parallel synchronization control panel, Remote control system etc.								
		Net Weight (KG)			12800					
Size and Weight		Dimension (L×W×H, mm)			5260×2040×2500 (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%		

 $[\]bigstar$ Above values are provided for information purpose only and are non-binding. The data given in official offer is decisive.



Website: www.ettespower.com Tel:+86-2223796980 Fax: +86-2223796811 Email: info@ettespower.com Docs Version March 2016