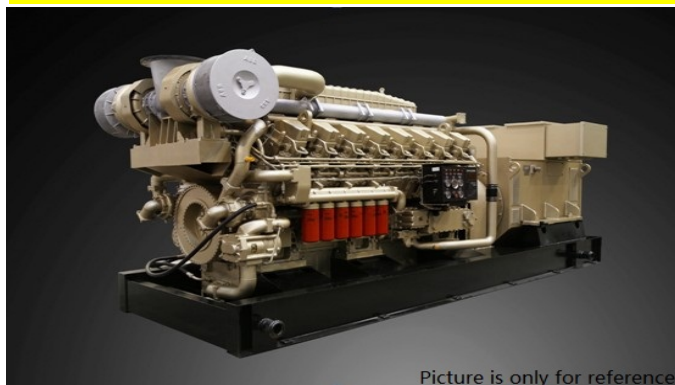


**Jichai 6000 SERIES DIESEL GEN-SET**

**2000kw /1500rpm**



Picture is only for reference

**ENGINE SPECIFICATIONS**

<b>V-16,4-Stroke-Cycle-Diesel (6000 series)</b>	
Bore-----	190mm
Stroke-----	215mm
Displacement-----	97.53L
Aspiration-----	Turbocharged-After cooled
Speed Control-----	Electronic Speed governing
Rated Speed-----	1500rpm
Rated power-----	2000kW

2000GF diesel generating set are powered by model H16V190ZLD-1 diesel engine produced by our company. Complying with National Standard “GB2820 General Specification for Industrial Frequency Diesel Generating Sets ( eqv ISO 8528 ) ” and with reference to “IEC34-I” rotary generator standard, the sets are equipped with high quality alternator of both home & abroad and self-made control panel according to customers requirement.

H16V190ZLD-1 diesel engine is adopted advanced governor of American WOODWARD Company. The power performance, fuel economy and reliability of the diesel engine reach world advanced level by adopting world advanced electronic control technology and lean-burnt strategy.

This genset have the features of accurate voltage regulating, good dynamic performance, less voltage waveform distortion, high efficiency, compact structure, easy to maintain, low speed, reliable and long life operation and cost-effective.

The genset can either transfer electricity directly to load or be combined in a power station with two or more than two sets. They can be used as normal and stand-by power in oil field, factory, resource development base, etc

**Main Features**

**Engine Design**

- Designed by AVL, Austria
- Intellectual Property belong to Jichai
- Triaxiality Finite Element Analysis
- Longer Stroke, More displacement
- Low Speed (1500RPM), More Reliable
- Advanced World Standard Performance

**Generator**

- Brushless Excitation
- AVR
- Better Insulation and Protection

**Safety**

- Low Oil Pressure Auto Stop Protection
- Over Speed Auto Stop Protection
- Explosion Proof
- High Coolant Temperature Alarm
- Low Coolant Level Alarm

- Emergency Stop Device

**Testing**

- Strict Inspection and Factory Test for Each Gen-set
- Start Performance Test
- Load Test
- Synchronization Test
- Safety System Test

**The Whole Equipment Supply**

- Standard Scope of Supply
- Optional Equipment List
- Repairing Tools
- Spare Parts
- Meet the Requirement for All Accessories of Project .

**Technical Support & Services**

- Free Technical Support and Training Service

- High Oil Temperature Alarm
- Complete Electrical Protection
- 24/7 Technical Service Tel Number
- Rapid Spare Parts Supply
- After Sales Service for Generator Set Lifetime

### Property Parameter Table

Model	2000GF
Engine type	H16V190ZLD
Alternator type	1FC series(SIEMENS technology)
Rated Power      kW	2000
Rated Speed      rpm	1500
Rated Frequency   Hz	50
Rated Voltage      V	10500
Rated PF	0.8
Cooling Method	Forced Water Cooled, With Radiator and Cooling Fan
Weight              kg	21000
Dimension          mm	7150×2180×2421

\*Rating and fuel consumption based on ISO Standard conditions (Ambient temperature at 25 degree Centigrade, Atmospheric pressure at 100kPa and Relative humidity at 30%). Site rating and fuel consumption should amend according to relative standard (The table at right side for reference )

### Main Specification of Engine

Model of engine	H16V190ZLD
Rated Power(kW)	2200
Rated Speed(r/min)	1500
No. and layout of cylinders	16-cylinder, 60°Vee
Type	Four stroke, water cooled, turbocharged and after-cooled, reliable diesel engine.
Specific oil consumption (g/kW.h)	≤200
Specific oil consumption (g/kW.h)	≤0.6
Bore(mm)	190
Stroke (mm)	215
Total displacement (L)	97.53
Governor	Electronic Governor
Fuel Injection system	High pressure direct injection system
Starting mode	24V DC electric starting motor
Direction of rotation	Counter-clockwise(facing to flywheel)
Lubrication method	Pressure and splash lubrication
Manufacturer	CNPC Jichai Co. Ltd

### Main Specification of Alternator

Model of alternator	1FC series(SIEMENS technology)
Rated power(kW)	2000
Rated voltage(V)	10500
Rated speed	1500 r/min

Rated frequency(Hz)	50
Type	6 poles, drip proof, form wound type windings, 125°C Temperature rise.
Exciting method	Brushless
Insulation class	H
Class of protection	IP23
Cooling	A fan at the drive end draws the cooling air
Coupling	Elastic
Voltage regulator	3 phase sensing with volts/Hz.
Voltage regulation	Less than +/-0.5% in steady state and less than +/-0.5% with 3% speed change.

### Standard Scope Of Supply

#### Cylinder block and Cylinder head assembly

- Cylinder block assembly
- Oil sump assembly
- Cylinder head assembly

#### Crankshaft connecting rod system

- Crankshaft assembly
- Piston and connecting rod assembly
- Bumper assembly
- Coupling assembly

#### Inlet and Exhaust system

- Air filter
- Inlet System
- Exhaust System
- Valve mechanism
- Exhaust gas turbocharger
- Exhaust manifold
- Corrugated pipe
- Exhaust pipe
- Exhaust elbow
- Exhaust silencer

#### Fuel system

- feed pump
- Fuel cooler
- Fuel injection Pump
- Fuel injector
- Improve pressure of oil pipe

#### Lubricating System

- Main oil pump
- Pre-oil pump

-Oil filter

-Oil cooler

-Oil Centrifugal filter

-Pressure regulating valve and oil pipes.

#### Cooling System

-Cooling fan and Driven device

- Radiator

#### Starting System

- Starting motor

- Electric-Hydraulic Governor

#### Monitoring and security systems

-Monitor

-Security system

-Run/Auto/Stop control .

#### Alternator

-6 pole, drip proof, form wound type windings

#### Spares

-Normal repair tools

-Special spare parts

-Technical document

- Certificate of quality

#### Others

-Common base

-Battery charger

-Oversize batteries

**Optional Equipment****Fuel System**

- Fuel tank for 12 hours
- Fuel tank for 24 hours
- Fuel tank for 48 hours

**Cooling System**

- Horizontal Cooling Radiators and Cooling Fan
- Pre-heating device for high and low temperature coolant
- Water softening device

**Alternator**

- Other brand alternator

**Spare Parts and Tools**

- Spare Parts for 2 years use
- Repairing Tools
- Lub oil for commissioning

**Others**

- Change control cable length according to site demand
- Steel generator container
- Installation Engineering Construction Service
- Maintenance service

**Certification**

The products of CNPC Jichai have passed international certificates include European Union, RS etc.