

120kw Natural gas Generator Set Powered by Weichai Baudouin engine

We provides a full line of brand new and high quality products. Each unit is strictly factory tested.

2. Main Specifications

| | | | |
|-----------------|--------------|-----------------|---------------------|
| Model | HTG-120GF | Rated current | 216A |
| Rated power | 120kW/150kVA | Power factor | 0.8 |
| Standby power | 132kW/165kVA | Controller | Auto PLC controller |
| Rated voltage | 400V/230V | Speed Governor | Electric control |
| Rated frequency | 50Hz | Fuel | Natural Gas |
| Rated speed | 1500 rpm | Gas Consumption | 0.3m³/kW·h |

* Sea-Level<1000m, Temp<40℃.

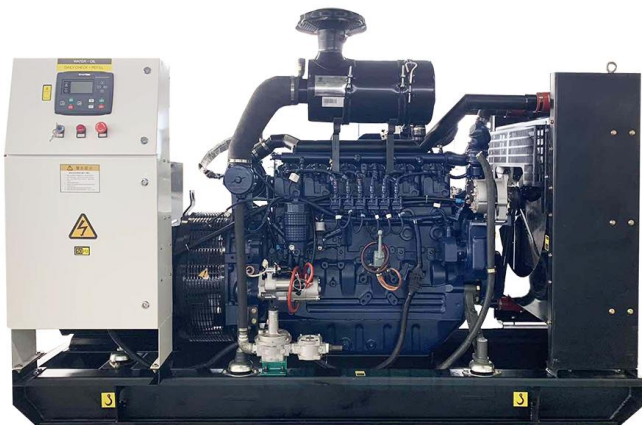
* Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

* Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

* Rated Voltage: generally the rated power includes 380/220V, 400/230V, 415/240V, 440/254V, we make it according to client's requirements.

3. Photos And Supply Scope

Open type



Silent Type



Generator Supply Scope:

- 1) High Performance Gas Engine.
- 2) Brushless Alternator With AVR .
- 3) Digital Control Cabinet .
- 4) Weather-proof Cabinet, Steel Base Frame With Shock Absorber.
- 5) High performance Gas Pressure Regulator Made In Italy.
- 6) Advanced Ignition System.
- 7) IMPCO Air-Fuel Mixer Made In USA.
- 8) Stable Electronic Speed Governor.
- 9) High Performance Flame Arrester.
- 10) Safely Explosion-proof System.
- 11) MCCB, Radiator Fan, Muffler, Air Filter.
- 12) 2*12V Non-Maintenance Start Batteries.
- 13) Installation Accessories, Tool Kit & Manual Books.

4. Engine Technical Parameters

| | |
|--------------|---------------------------------------|
| Engine Model | Weichai Baudouin engine/WP6D132E300NG |
|--------------|---------------------------------------|

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| | | |
|---------------------------------------|--|--------|
| Engine Type | Four Stroke, Water Cooling, Spare Ignition, 24V DC Starting | |
| Gas Train | Pressure Regulator Valve, Gas Filter and Flame Arrestor etc. | |
| Cylinder No. | 6 in line | |
| Bore ×Stroke | 105×130mm | |
| Displacement | 6.75L | |
| Start Method | Electric | |
| Compression Ratio | 11:1 | |
| Crankshaft Rotation Direction | Inverse Hour (From Flywheel) | |
| Cooling Method | Closed Water Cooling | |
| Aspiration Type | Turbo charged and air-cooling | |
| Speed Governor | Electronic | |
| Gas Mixer Formation | Pre-Mix | |
| Rated Fuel Consumption rate (m³/Kw·h) | ≤0.3 | |
| Fuel Consumption | 100% Loads | 36m³/h |
| | 75% Loads | 28m³/h |
| | 50% Loads | 20m³/h |
| Lubricating oil Temperature | < 80℃ | |
| Lubricating oil Pressure | 345-483 Kpa | |
| Max -exhaust Temperature | 600℃±25 | |

5. Alternator Technical Parameters

| | | | |
|------------------|---------------|-------------------------|-----------------|
| Alternator Model | Faraday/FD3ES | Insulation class | Class H |
| Rated Power | 120kW/150kVA | Connection | 3-phase, 4-wire |
| Standby power | 132kW/165kVA | Cooling | Air cooled |
| Power factor | 0.8 | Protection Class | IP23 |
| Excitation Type | Brushless | Voltage Regulation Mode | AVR (Automatic) |

6. Electrical performance

| | | | |
|---|-------|---|-------|
| Voltage setting range: | ≥±5% | Steady - state frequency regulation | ≤5% |
| Steady-state voltage regulation: | ≤±1% | Frequency fluctuation rate | ≤1.5% |
| Transient voltage deviation (100% Sudden power reduction) | ≤+25% | Transient frequency deviation (100% Sudden power reduction) | ≤+12% |
| Transient voltage deviation (Sudden power plus) | ≤-20% | Transient frequency deviation(Sudden power plus) | ≤-10% |
| Voltage stabilization time (100%Sudden power reduction) | ≤6S | Frequency recovery time (100%Sudden power reduction) | ≤5S |
| Voltage stabilization time (Sudden power plus) | ≤6S | Frequency recovery time(Sudden power plus) | ≤5S |

7. Control Panel



AGC 150

AGC 150 is a controller containing all necessary functions for protection and control of a genset, a mains breaker, and a bus tie breaker. It can be used as a single controller for one genset, or a number of controllers can be connected in a complete power

management system for synchronising projects, island applications or running parallel to mains.

AGC 150 is an economical solution for genset builders, who need a flexible generator protection and controller for small to large genset applications.

AGC 150 contains all necessary 3-phase measuring circuits, and all values and alarms are presented on the sunlight readable LCD display screen.

Easy setup

Gensets connected via CAN bus are easily set up for parallel operation as the controllers automatically detect each other at the CAN network. If you at a later stage connect more gensets, the controller automatically identifies and connects them via CAN bus, and application configuration is possible via the display.

Easy and safe to use

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Get access to important genset information quickly via the sunlight readable LCD. The controller features illuminated buttons that smoothly guide the operator and make it very easy and intuitive to operate. Only buttons relevant for a function are visible to the user. Get easy access to the most common functions with configurable shortcuts.

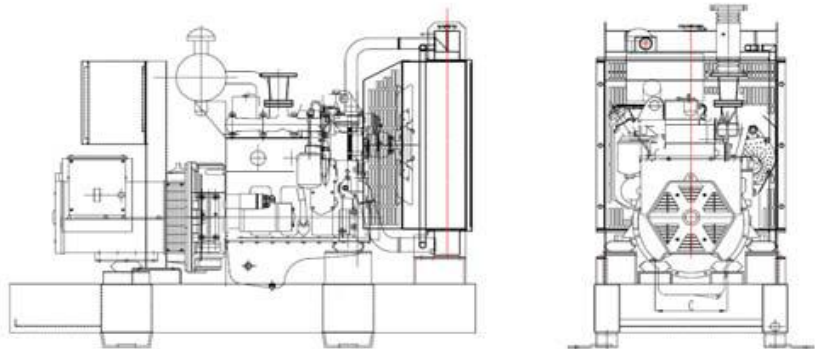

The AGC 150 provides up to three levels (customer, service, and master) of password-protected and role-based access. Configure parameters for each level and have only relevant parameters displayed.

Built to last – also in green energy applications

The AGC 150 comes with uncompromising quality. The controller is made of robust materials and is built to last. It has undergone several tests showing that it stands wear and tear in all types of harsh environments. Also, the controller is suitable for PV-Diesel hybrid solutions and also meets Tier 4 Final requirements

| | | |
|--|--|---|
| Genset controller features <ul style="list-style-type: none"> ✓ -40 degree support ✓ Adapting controls (Controllers show only relevant buttons) ✓ Additional I/O modules support (CANbus based CIO) ✓ Analog Inputs / Analog Outputs ✓ Analog inputs support resistance, current and voltage ✓ Analogue loadshare ✓ AOP 2 support ✓ Automatic Mains Failure sequence ✓ CAN telegrams between controllers ✓ Changable operation mode (multiple modes in one software | <ul style="list-style-type: none"> ✓ DEIF PMS ecosystem compatible with AGC-4, AGC-4 Mk II, AGC 150, AGC 200, ASC-4 ✓ Digital & analog governor support (Isochronous and droop) ✓ Emission control with force regeneration and SOOT alarm ✓ Emulation for easy training and FAT ✓ Engine CANbus ✓ Engine derate functionality ✓ Ethernet ✓ Changeable controller type ✓ Close Before Excitation / Run-up synchronization from 6 seconds ✓ DEIF digital AVR DVC550 support ✓ Tier4 final/stage5 ✓ UL approved | <ul style="list-style-type: none"> ✓ Front mount ✓ Fuel pump logic (after filler) ✓ Hybrid EMS support (via ASC-4) ✓ Inputs/ Outputs ✓ Inverse time over-current (ANSI 51) False ✓ Load add/ shedding support ✓ Load control and Heavy consumer support (via ALC-4) ✓ Multi purpose PID's ✓ Multi-master Power Management ✓ PLC logic ✓ RS485 ✓ Synchronization |
|--|--|---|

8. Approximated Dimensions & Weight

| | |
|---|--|
|  | Open Type |
| | <p>L * W * H: 2400*1150*1400 (mm)</p> <p>Gross Weight: 1800 kg</p> <p>NOTE: The dimensions are for reference only., The exactly dimensions would be provided by the manufacturer after the contract is signed.</p> |
|  | Silent type |
| | <p>L * W * H: 3000*1150*1900 (mm)</p> <p>Gross Weight: 1700 kg</p> <p>NOTE: The dimensions are for reference only., The exactly dimensions would be provided by the manufacturer after the contract is signed.</p> |

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9. Advantage

- 1) Low operating and maintenance costs
- 2) Longer machine life: Special design engine has longer life with overhaul time 20000hours.
- 3) Easy operation: The Gas Power Generator is easy to operate.
- 4) The Gas Power Generator use most advanced lean burn technical for high efficiency
- 5) Main parts like ECU, Gas Mixer, Pressure Regulator, etc are origin made in USA& Italy.

10. Gas Required

- 1) Gas Pressure range 0.8-30kpa; Ambient temperature: <40°C; Sea level: < 1000m; Humidity ratio: <60%.
- 2) More than 80% CH₄ Content, No H₂O, H₂S<50ppm, NH₃<40ppm, Dust<5µm.
- 3) Lubricating oil: 15w/40CD/F suggested.

11. Optional Equipment

| Item | Picture | Explain | Unit-price |
|-------------------|--|---|------------|
| Soundproof Canopy |  | Scientific and efficient soundproof design can effectively reduce the noise of the generator to 70-75 dB. The use of fire-proof silencer sponge to ensure the safety of generating units. | * |

12. Genset Warranty

15 months or 1500 running hours from shipment date, subject to the earlier. If the quality problem arise during the warranty period, and verified that the problem is caused by our genset-body instead of external or natural reasons (Refer to all kinds of natural disaster, shipping, loading, unloading, wrong-operation, etc), we will supply the relevant spare parts free of charge for maintenance; after the warranty period, we can supply the required spare parts for you under cost price.

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