500kW Natural Gas Generator Set

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

1. Main Specifications

Model	HTG-500GF		Rated current	900A
Rated power	**500kW**/625kVA		Power factor	0.8
Standby power	550kW/687.5kVA		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.

2. Photos And Supply Scope

Open type

3. Engine Technical Parameters

Engine Model	Weichai baudouin engine/12M26D660E300NG
Rated Power	550kW
Engine Type	In-line, Four Stroke, Electronic Ignition,water cooled
Cylinder No.	12 V
Bore ×Stroke	150×150mm
Displacement	31.8L
Start Method	Electric
Crankshaft Rotation Direction	Inverse Hour (From Flywheel)
Cooling Method	Open Water Cooling
Aspiration Type	Turbo charged and inter cooled

Speed Governor	Electronic
Gas Mixer Formation	Pre-Mix
Rated Fue Consumption (m^3/Kw·h)	0.3
Lubricating oil Temperature	＜80℃
Lubricating oil capacity	26L
Lubricating oil Pressure	345-483 Kpa
Max -exhaust Temperature	600℃±25

4. Alternator Technical Parameters

Alternator Model	Faraday/FD5L		Insulation class	Class H
Rated Power	**500kW**/625kVA		Connection	3-pahse, 4-wire
Standby power	550kW/687.5kVA		Cooling	Air cooled
Power factor	0.8		Protection Class	IP21
Excitation Type	Brushless		Voltage Regulation Mode	AVR (Automatic)

5. 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

6. Control Panel

DSE7320 Introduction:

The DSE7310 is an Auto Start Control Module and the DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas,gen-set applications.

Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem).

The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion.

Both modules are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer an extensive number of flexible inputs,outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.

The extensive list of features includes enhanced event and performance monitoring, remote communications, PLC functionality and dual mutual standby (DSE7310 only) to reduce engine wear.

The modules can be easily configured using the DSE Configuration Suite PC software.Selected front panel editing is also available.

KEY FEATURES & BENEFITS

○ Heated display option.
○ 3-phase generator and mains (utility) sensing.
○ Power monitoring (kW h, kV Ar, kV Ah, kV Ar h).
○ Remote communications (RS232 & RS485).
○ Configurable inputs/outputs (9/8).
○ CAN and magnetic pick-up sensing.
○ Fuel usage monitor and low level alarms.
○ Tier 4 CAN engine support.
○ Manual/automatic load transfer.
○ Configurable display languages.

KEY BENEFITS

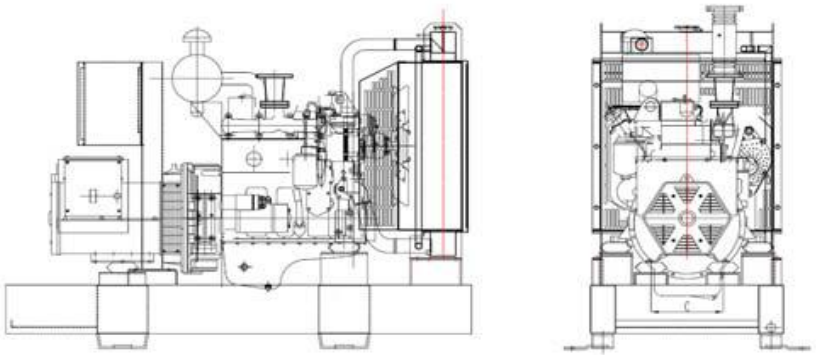
○ Ensures the display continues to operate in extreme cold weather conditions.
○ Provides true generator and mains (utility) sensing.
○ Provides clear accurate power measurement information.
○ Provides secure and simple off site monitoring. All ports are continuously active.
○ Provides multiple installation options.
○ Makes the module ideal for standard and electronic engine applications.
○ Tracks the amount of fuel being used and sounds an alarm if over/under fuel use is detected.
○ Ensures the control module can be used with the

ADDITIONAL FEATURES

○ Customisable status screens.
○ Multiple date & time scheduler.
○ Charge alternator failure alarm.
○ CAN engine manual speed control.
○ Manual fuel pump control.
○ Engine exerciser.kW & kV Ar overload protection.
○ Reverse power (kW & kV Ar) protection.
Unbalanced load protection.

○ Power save mode. ○ Integral PLC editor. ○ Flexible sender inputs. ○ DSE Configuration Suite PC Software. ○ Configurable event log (250). ○ Load switching, load shedding & dummy load outputs.	latest in modern electronic engine technology. ○ Ensures the load can be transferred manually/automatically between mains (utility) and generator power. ○ Ensures the control module is suitable for worldwide use. ○ Reduces the power usage within system batteries. ○ Ensures additional applications are easily integrated into the system. ○ Allows alternative sender types to be selected using one input. ○ Provides complete user-friendly configuration and easy-to-use high-level system control & monitoring. ○ Provides access to historical alarms and operational status. ○ Allows load options and dummy load requirements to be independently controlled.	○ USB connectivity. ○ Backed-up real time clock. ○ Configurable Gencomm pages. ○ SMS messaging start & stop functionality. ○ Modem diagnostic display screens. ○ Remote display support (max 3 units).

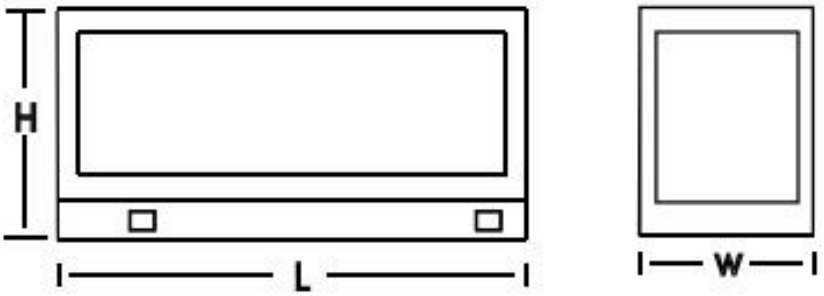
7. Approximated Dimensions & Weight



Open Type

L * W * H: 3747*1486*1909 (mm)
Gross Weight: 5040 kg

NOTE: The dimensions are for reference only., The exactly dimensions would be provided by the manufacturer after the contract is signed.



Container Type

L * W * H: 6058*2438*2591 (mm)
Gross Weight: 13000 kg
NOTE: The dimensions are for reference only., The exactly dimensions would be provided by the manufacturer after the contract is signed.

8. 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 HAITAI Gas Power Generator is easy to operate.
4) The HAITAI 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.

9. 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.