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**Brand New 380KVA Cummins Diesel Generator Sets**

**General feature:**

- \*Absorber
- \*Standard control panel
- \*Main line circuit breaker
- \*Dry type air filter, fuel filter, oil filter
- \*24V DC start motor and storage battery
- \*40°C radiator as standard, 50°C is optional
- \*Coupled with Cummins engine and Kaihua alternator
- \*Alternator: single bearing, brushless, self-excited, IP21, insulation class H
- \*All generator sets are gone through rigorous testing before being released to the market place, including 50% load, 75% load, 100% load, 110% load and all protection function (low oil pressure, high water temperature, over speed, over load)



**The picture is only for reference**

**Section A Gen-set Quotation**

**1. General quotation (FOB Shanghai Port ,China )**

Gen-set Model	Engine Model	Alternator Model	Unit price (USD) open type	Unit price (USD) silent type
KH-300GF	NTA855-G3	KH314C	24,500.00	27,100.00

Remark: ATS for open type plus USD1,100.00, for silent type plus USD400.00

**2. Delivery time**

Within 15 work days after receiving payment.

**3. Payment**

T/T (30% of total amount as advance payment , Pay 70% balance before delivering)

**4. Validity**

15 days since the date of quotation.

**5. Warranty**

warranty is according to our standard conditions: 12 months or 1,000 running hours, subject to the earlier one (artificial damage to be an exception).

**6. Criterion**

- (1) European Safety Standard: CE Certificate
- (2) ISO9001:2008 Quality Control System
- (3) Cummins OEM Certificate

## Section B. Technical Specification

### 1. Specification of genset

Gensets Model	KH-300GF
Prime Power(KVA)	380
Standby Power(KVA)	418
Rated Voltage(V)	380
Rated Frequency(HZ)	60
Rated Speed (rpm)	1800
Power Factor(COS $\phi$ )	0.8(lagging)

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

### 2. Specification of diesel engine

Engine brand	Cummins
Engine model	NTA855-G3
Number of Cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbo charged and Water/Air cooling
Fuel System	PT type fuel pump, EFC
Bore×Stroke (mm×mm)	140x152
Displacement (Liter)	14
Compression Ratio	14.0:1
Speed Governor	Electronic
Cooling System	Forced Water Cooling Cycle
Total lubrication system capacity (L)	36.7
Fuel Consumption at 100% Load (g/kwh)	207
Starting Method	DC24V electrical starting

### 3. Specification of alternator

Alternator brand	Kaihua
Orgin	TaiZhou
Alternator model	KH314C
Number of Phase	3
Connecting Type	3 Phase and 4 Wires
Number of Bearing	1
Protection Grade	IP21
Altitude	≤1000m
Exciter Type	Brushless ,Self-exciting, AVR automatic voltage regulating,100% Copper winding wire
Insulation Class	H
Telephone Influence Factor (TIF)	≤50

THF	$\leq 2\%$
Voltage Regulation, Steady State	$\leq \pm 1\%$
Transient State Voltage	$\leq -15\% \sim +20\%$

#### 4. Specification of control System

The control panel is AMF control panel, with the display of voltage, current, frequency, water temperature, oil pressure. The genset with low oil pressure, high water temperature, over speed, over load protection function.

##### The features of control Panel:

The control panel is a new generation Automatic control module for single Genset, which adopts bran-new outline configuration, focus on the requirements of customers, and perfectly improves the performance of controller. It fully meets the auto control requirements of different kinds of Genset for user or special assembly factory.

The module also monitors and protects the engine, indicating operational status, fault conditions and metering on the front panel LCD and LED's.

- Multi-Language menu.
- 128 x 64 pixel LCD display.
- More configurable isolated digital inputs.
- True RMS measure of voltage and current.
- More outputs of configurable auxiliary control relays.
- Optional CANbus, read and control the parameters for ECU engine.
- With GPRS-DTU or Ethernet-DTU for remote communication instead of RS485, RS232, or USB port for remote communication.
- All connections of the controller are by secure plug and socket, for ease and convenience to connect, move, maintain and replace the device.
- 4 analog inputs for kinds of optional sensors that can be used for measuring oil pressure, coolant temperature, fuel level and so on; parameters can be configured by user.
- Flexible equipped with RS485, RS232 and USB, realizing remote monitor; or communicated with PC, fully realizing functions of remote signaling, telemetering and remote control, can read and set the running parameters of controller.
- Buttons on control panel are used for selecting control modes, starting and stopping the operating procedure, displaying data and modifying the parameters. LED indicators are used for indicating the operation mode of controller and the running status of Genset, and LCD displays each measuring parameter and status.

##### Pls check the following picture:



#### 5.The features of ATS :

- ATS cabinet can be automatically converted to achieve both on the power of power, when the main power is available, genset automatically return to the main power supply.
- To achieve uninterrupted power to protect the normal production plant.
- Standby genset can be paralled into operation syytem when automatically transferred switch is running. all load are transferred to the running standby genset, after the original genset stop working without power off.

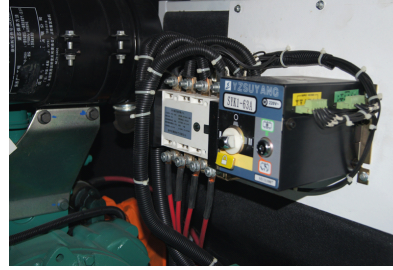
- The power outage more stringent requirements of the power system,we should use electricity /units switching system.

- The overall structure is simple, small size, shape aesthetics, security and stability, and easy to operate, long life, Short time switch,safe and secured

**Pls check the following picture:**

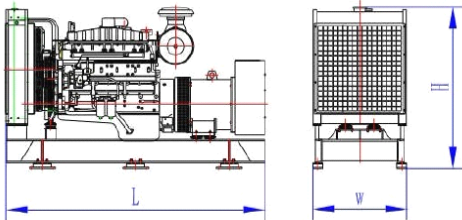


ATS for open type



ATS for silent type

## 6.Dimension & Weight & Noise

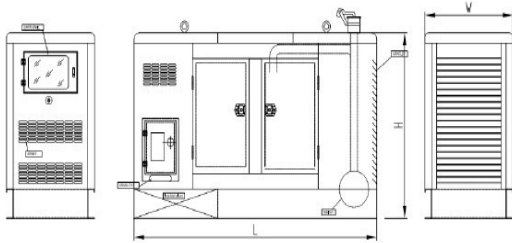


### Open type

Overall Size:3400X1250X1900mm(L\*W\*H)

Weight:3100kg

Noise:92dB(A) at 7m



### Silent type

Overall Size:4000×1800×2200mm(L\*W\*H)

Weight:4900kg

Noise:72dB(A) at 7m

## Section C Scope of Supply

### 1.Standard supply of scope

- (1) Brand new Cummins diesel engine.
- (2) Brand new Kaihua AC brushless alternator IP21.
- (3) Radiator: 40°C.Ambient temperature mounted on skid.
- (4) Three phase, 380V,60HZ,1800RPM, 0.8PF.
- (5) Standard Accessories(such as operation manual,certificate of conformity and so on).

### 2.Optional supply scope

Engine and radiator	Fuel system	Control system	Others
<ul style="list-style-type: none"> <li>● Water preheater</li> <li>● Spare parts</li> </ul>	<ul style="list-style-type: none"> <li>● Daily fuel tank</li> <li>● Base fuel tank</li> </ul>	<ul style="list-style-type: none"> <li>● Auto control panel</li> <li>● Remote control panel</li> <li>● Auto transfer switch(ATS)control panel</li> <li>● Paralleling system</li> </ul>	<ul style="list-style-type: none"> <li>● Soundproof type</li> <li>● Rainproof type</li> <li>● Mobile trailer type</li> </ul>

Taizhou Kaihua Diesel Generator Sets Co.,Ltd

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