

# AOSIF Cummins Series

## Product introduction

**AOSiF**  
POWER GENERATOR



## Model AC3500 Generator set

# Standby 3125KVA/2500KW

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**XIAMEN AOSIF ENGINEERING LTD.**

## General Performance Data

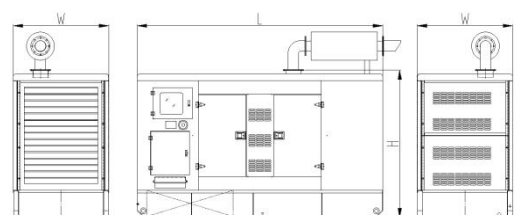
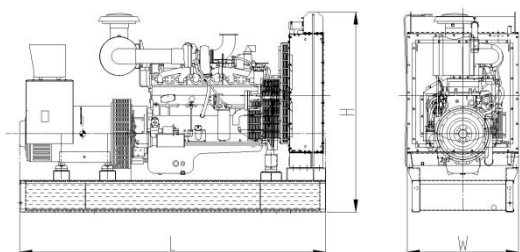
Prime Power	3125KVA/2500KW	Engine	Brand	Cummins
Stand by Power	3500KVA/2800KW		Model	QSK95-G5
Frequency/Speed	50Hz/1500rpm	Control module	Deepsea 7320	
Rated Power Factor(cosφ)	0.8	Rated Current	4511A	
Standard Voltage	230V/400V	Capacity of Breaker	6300A	
Phases	3	Starting Voltage	DC24V	

## Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	720 L/h	0.202 kg/kW·h
100%Prime	658 L/h	0.207 kg/kW·h
75%Prime	490 L/h	0.206 kg/kW·h
50%Prime	335 L/h	0.211 kg/kW·h
25%Prime	185 L/h	0.234 kg/kW·h

## Standards followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE



## Dimensions and Weights

Type	Silent
Length(mm)	
Width(mm)	
Height(mm)	
Weight(kg)	
External daily fuel tank volume (L)	

## Engine specification

### Basic parameter

Manufacturer	Cummins
Model	QSK95-G5
No. of cylinder	16
Type	4-cycle, Vee
Prime Power	2696kWm/3616BHP
Standby Power	3036kWm/4071BHP
Induction system	Turbocharged and Low Temperature Aftercooled
Fuel System Type	Cummins MCRS
Bore x Stroke	190 mm × 210 mm
Displacement	95 L
Compression ratio	15.5:1
Oil Capacity(Low - High)	647 L
Coolant Capacity(Engine only)	323 L
Cranking Motor Voltage	DC24V

### Fuel System

Max Fuel Supply Restriction	17 kPa
Max Fuel Inlet Temperature	70°C

### Lubrication system

Oil Pressure	
---Minimum Idle Speed	276 kPa
---Governed Speed	448-552 kPa
Max. allowable oil temperature	121°C
Oil Capacity Range	556-621 L
Total System Capacity (with Spin-On Filters)	647 L

### Air induction system

Max Intake Air Restriction	
---With Normal Duty Air Cleaner and Clean Filter Element	4kPa
---With Dirty Filter Element	7kPa

### Exhaust system

Max Back Pressure at Standby Power	6.8 kPa
Exhaust Gas Temperature (Prime)	408°C

### Cooling system

Coolant Capacity-Engine	323 L
Max Coolant Friction Head External to Engine	59 kPa
Engine Water Flow @5psi Friction Head	2665 L/min
Engine Water Flow @Maximum Friction Head	2563 L/min
Minimum Pressure Cap Rating at Sea Level	76 kPa
Max Intake Manifold Temp Warning/Shutdown	88°C/93°C
Max Top Tank Temperature (Standby/Prime)	104°C/100°C

### Electric system

System Voltage	24V
Min Recommended Battery Capacity @-18°C	1400 CCA
Max Starting Circuit Resistance	0.002 ohm
Max Current Draw of the System	67A

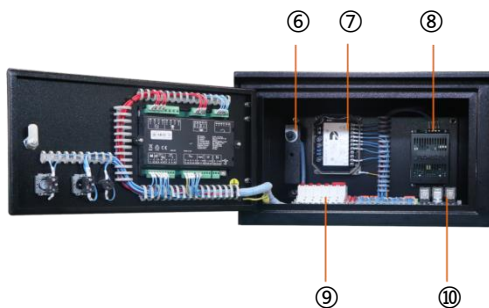
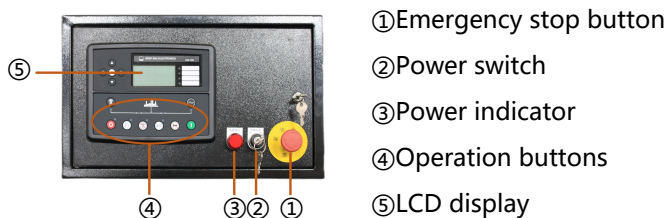
## Alternator specification

Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	H
Power factor(cosφ)	0.8	Protection	IP23
Winding connection	Star	Excitation system	Self-excited
Winding pitch	2/3	Bearing	Single Bearing
Voltage regulator type	AVR	Coupling	Flexible disc

## Control system Introduction

### Deepsea 7320 Auto start & auto mains failure control panel

**Deepsea 7320** is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



### Key Features:

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection(kW, kVA, kVA<sub>r</sub> PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 8 configurable outputs
- 8 configurable input
- Integral PLC editor
- Tler 4 CAN engine support
- Data logging facility
- DSE2130,DSE2157,DSE2548 expansion module can be connected
- Support 0-10V or 4-20mA oil pressure sensor

### Main features:

- Multi language display
- Mains failure self starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

### Protection:

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed,oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start

## AOSIF Soundproof Canopy Introduction:

### Standard Type:

- The arc angle structure makes the appearance beautiful and not easy to bump
- High quality coating powder, chemical surface treatment & 100-120um coating thickness greatly improving the anti-corrosion and anti rust level
- Stainless steel hinge & door lock are beautiful and anti-rust
- 2.0mm cold rolled plate used makes the body more solid
- The bottom forklift and loading port design enables easy loading and unloading
- The drainage outlets are all connected to the outside for easy operation
- The sufficient air in & out design ensure long-term and stable operation of the unit
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- High density foam used inside effectively reduces noise
- Ceiling Lighting is equipped for easy operation
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Models above medium power range are designed with top hoisting mechanism to facilitate transportation of the unit.

### Imitated container type:

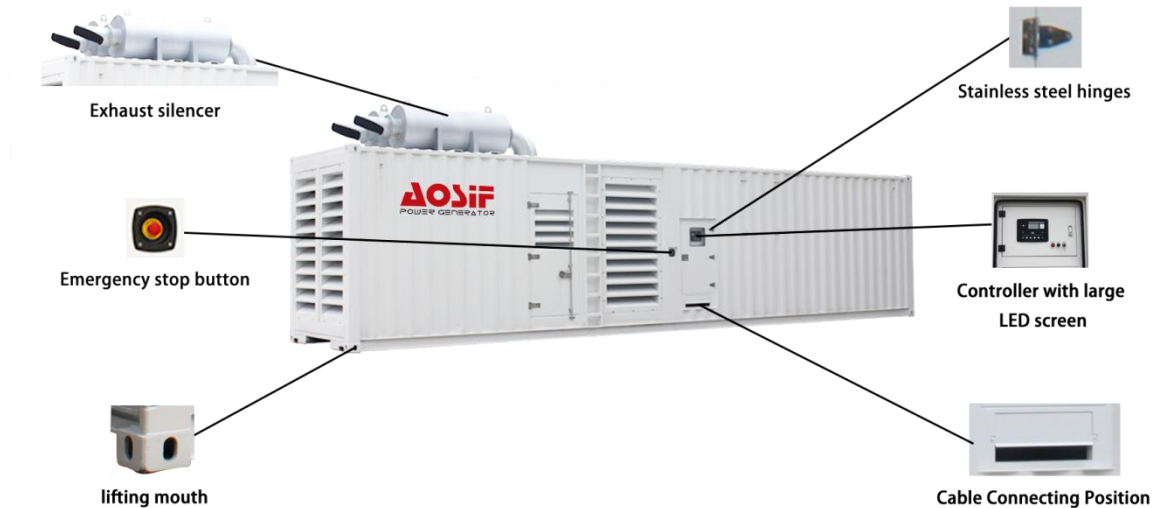
- The shell is made of 3.0mm hot rolled steel plate so as to withstand the lifting capacity of 15-ton without deformation
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The shell looks similar to standard container, and can be loaded into 40HQ container for transportation, which is convenient for shipping
- The lifting eye holes are designed on the top same as the standard container for easy handling
- High density foam used inside effectively reduces noise
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Double emergency stop button set on different surfaces enables quick response to operation requirements
- The shell base is independent from the unit with 3mm thick checkered steel plate floor, which is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- The door handle, lock and hinge are all made of stainless steel to avoid rusting
- The air out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation

### Standard container type:

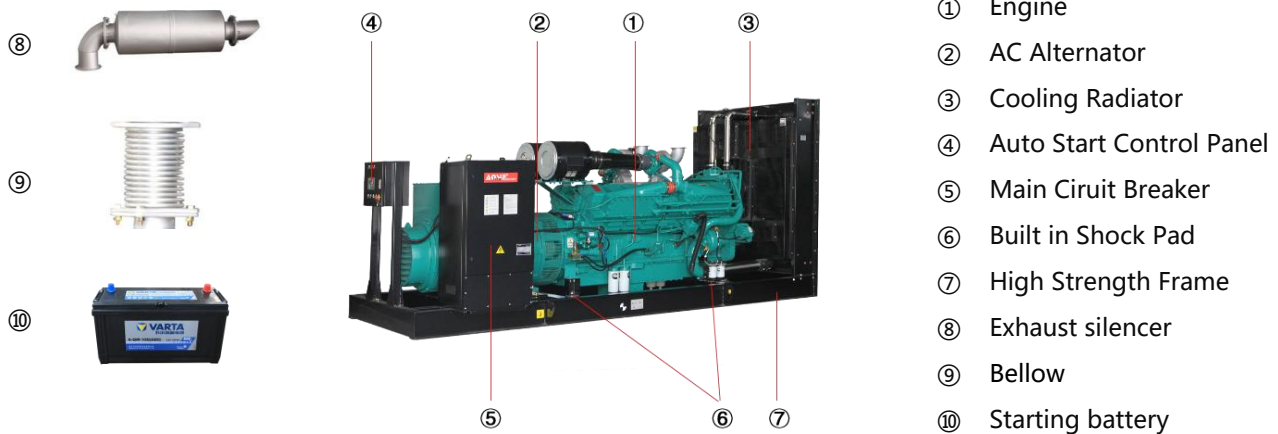
- Can be shipped on board directly during transportation
- The mesh plate with podwer coating and inner pasted with high-density glass fiber is installed inside the shell, which is beautiful and anti-rust, and can further reduce the noise
- 3mm thick checkered steel plate floor is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- Double emergency stop button set on different surfaces enables quick response to operation requirements
- The independent daily fuel tank can be designed to put inside to meet requirements of continuous operation
- The fuel filler is set on the shell to facilitate refueling
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The air in & out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation



## Decomposition diagram introduction of AOSIF Typical Canopy



## Standard supply scope:



## Optional supply scope:

Genset	Engine	Alternator	Control system
<ul style="list-style-type: none"> <li>• Tool box</li> <li>• Base fuel tank</li> <li>• External daily fuel tank</li> <li>• Trailer</li> </ul>	<ul style="list-style-type: none"> <li>• Fuel heater</li> <li>• Fuel and water separator</li> </ul>	<ul style="list-style-type: none"> <li>• Temp. detector for winding and bearing</li> <li>• PMG</li> <li>• Antirust, mildew and salt fog treatment</li> <li>• Anti condensation heater</li> </ul>	<ul style="list-style-type: none"> <li>• ATS</li> <li>• Synchronization System</li> <li>• Adjustable earth relay</li> </ul>
Breaker	Fuel system	Lub-oil system	Cooling system
<ul style="list-style-type: none"> <li>• ABB</li> <li>• Schneider</li> </ul>	<ul style="list-style-type: none"> <li>• Low fuel level alarm</li> <li>• Auto Fuel Pump</li> <li>• T Valve</li> </ul>	<ul style="list-style-type: none"> <li>• Lub oil heater</li> <li>• Temp.-sensor</li> <li>• Oil drain Pump</li> </ul>	<ul style="list-style-type: none"> <li>• Elec.coolant Heater</li> </ul>



# Our Promises

- AOSIF Engineering provides a full line of brand new and high quality products.
- Each unit passes strictly loading test in factory before shipment.
- Quality Warranty is provided strictly in accordance with warranty terms.
- Three level service guarantee: Aosif dealers, Service outlets of engine/alternator manufacturers, Aosif service team.



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**Specifications are subject to change without notice.**