

# AOSIF Cummins Series

## Product introduction



## Model AC600 Generator set

### 550KVA/440KW



XIAMEN AOSIF ENGINEERING LTD.

## General Performance Data

Prime Power	550KVA/440KW
Stand by Power	600KVA/480KW
Frequency/Speed	60Hz/1800rpm
Rated Power Factor( $\cos\phi$ )	0.8
Standard Voltage	277V/480V
Phases	3

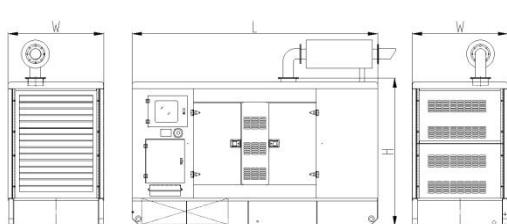
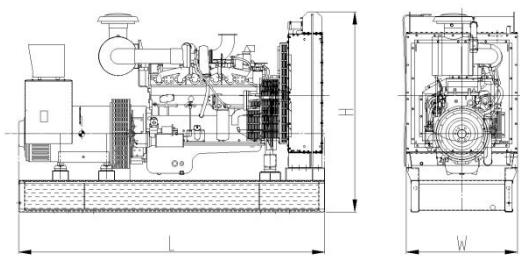
Engine	Brand	Cummins
	Model	QSZ13-G11
Control module	Deepsea 6120	
Rated Current	662A	
Capacity of Breaker	800A	
Starting Voltage	DC24V	

## Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	197g/KW.h	134L/h
100%Prime	195g/KW.h	121L/h
75%Prime	195 g/KW.h	91 L/h
50%Prime	198 g/KW.h	61 L/h
25%Prime	218 g/KW.h	34 L/h

## Standards followed

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



## Dimensions and Weights

Type	Open	Silent
Length(mm)	2980	3850
Width(mm)	1370	1700
Height(mm)	2140	2300
Weight(kg)	3250	4100
Base fuel tank volume (L)	850	850

## Engine specification

Basic parameter		Air induction system	
Manufacturer	dongfeng Cummins	Maximum allowable intake air restriction	
Model	QSZ13-G11	---with clean filter element	3.7kPa
No. of cylinder	6	---with dirty filter element	6.2kPa
Type	4 cycle, In-line	Intake Air Flow	3235 L/s
Prime Power	450kw /603HP	Exhaust system	
Standby Power	500kw /670HP	Exhaust Gas Flow	7809 L/s
Induction system	Turbocharged and Air to Air Aftercooled	Exhaust Gas Temperature (Dry Stack)	480°C
Governor	ECU	Cooling system	
Bore x Stroke	130x163mm	Coolant capacity(Engine Only)	23.1L
Displacement	13.0L	Jacket Water Flow @4 psi Friction Head	34 L/s
Compression ratio	17:1	Jacket Water Flow @Max Friction Head	32 L/s
Oil Capacity(Total)	78 L	Sea level minimum pressure cover pressure	103kPa
Coolant Capacity(Engine only)	23.1L	Engine Maximum Coolant Temperature	14 N/A°C
Cranking Motor Voltage	DC24V	Thermostat opening temperature	102 -102°C
Fuel System		Intake cover alarm/shutdown temperature	82 94°C
Oil pump inlet maximum oil suction resistance (clean filter/dirty filter)	16.9-27.0kPa	Electric system	
Max Fuel Inlet Temperature	71°C	System Voltage	24 V
Lubrication system		Min Recommended Battery Capacity (cold soak @-18°C to 0°C)	1800 CCA
Oil Pressure		Maximum Starting Circuit Resistance	0.002 ohm
---Idle speed	83.0 kPa	Maximum Current Draw of the System	67 A
---Rated speed	207.0-276.0 kPa		
Max. allowable oil temperature	125°C		
Oil Pan capacity - Low/High	61.2-75.3 L		
Total system capacity	78 L		

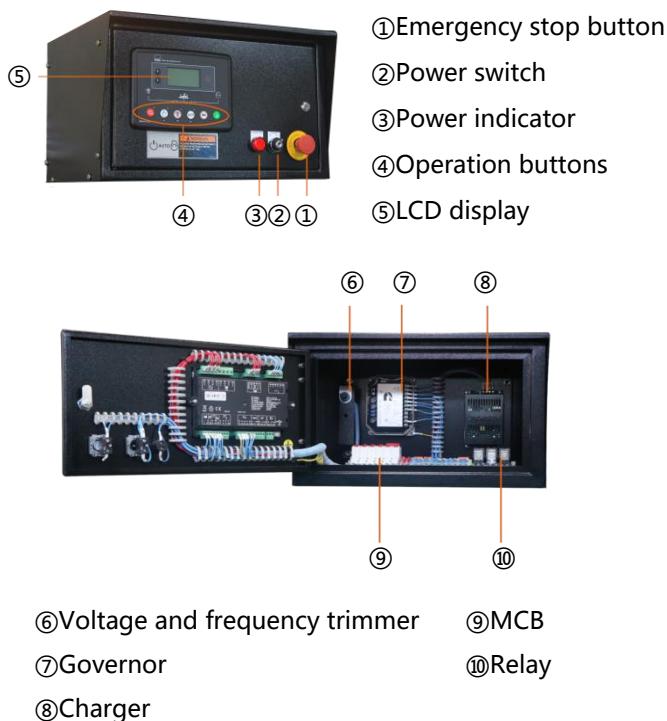
## Alternator specification

Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	H
Power factor( $\cos\phi$ )	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 6120 Auto start & auto mains failure control panel

**Deepsea 6120** 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, kVAr 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
- 4 active outputs
- 4 digital inputs and 3 analogue inputs.
- 6 Custom digital input
- 6 outputs(4 configurable on magnetic pick-up, 6 configurable on Canbus version)
- 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 powder 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:

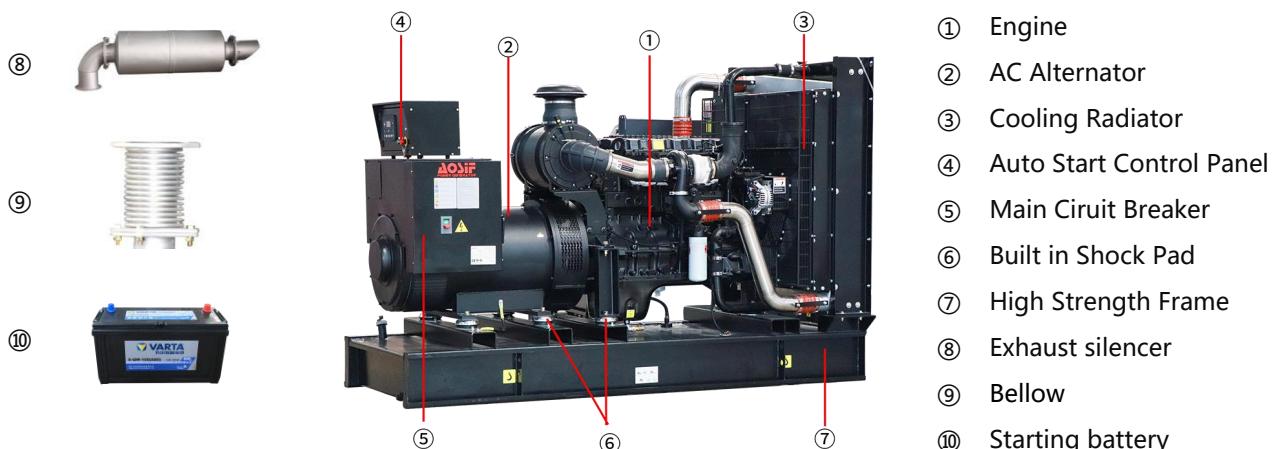
- Can be shipped on board directly during transportation
- The mesh plate with powder coating and inner pasted with high-density glass fiber is installed inside the shell, which is beautiful and anti-rust, and can further reduce the noise
- 3mm thick checkered steel plate floor is beautiful & antiskid, 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 powder 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.**