AOSIF Cummins Series Product introduction









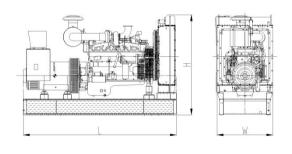
Model AC463 Generator set 425KVA/340KW

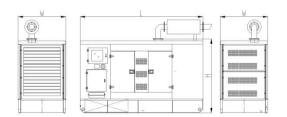




General Performance Data				
Prime Power	425KVA/340KW	Engine	Brand	Cummins
Stand by Power	463KVA/370KW	Liigiiic	Model	QSG12-G3
Frequency/Speed	60Hz/1800rpm	Control module	Deepsea 6120	
Rated Power Factor(cosφ)	0.8	Rated Current	511A	
Standard Voltage	277V/480V	Capacity of Breaker	630A	
Phases	3	Starting Voltage	DC24V	

Fuel consumption			Standards follo	Standards followed	
Rated output	Fuel consumption rate		ISO9001	ISO14001	
100%Standby	191g/KW.h	93L/h	ISO8528	ISO12100	
100%Prime	190g/KW.h	85L/h	ISO13849	EN12601	
75%Prime	186g/KW.h	62L/h	GB12786	GB/T2820	
50%Prime	192 g/KW.h	43L/h	IEC60034	IEC60204	
25%Prime	213 g/KW.h	24L/h	CE	RETIE	





Dimensions and Weights				
Туре	Open	Silent		
Length(mm)				
Width(mm)				
Height(mm)				
Weight(kg)				
Base fuel tank volume (L)				



Engine specification

Basic parameter	
Manufacturer	Cummins
Model	QSG12-G3
No. of cylinder	6
Туре	6cycle, Vertical In-line
Prime Power	378kw /507HP
Standby Power	414kw /555HP
Induction system	Turbocharged and Charge Air Cooled
Governor	ECU
Bore x Stroke	132 mm × 144 mm
Displacement	11.8 L
Compression ratio	17.0:1
Oil Capacity(Total)	34.1 L
Coolant Capacity(Engine only)	14 L
Cranking Motor Voltage	DC24V
Fuel System	
Max Supply Fuel Flow	182 L/hr
Max Fuel Inlet Temperature	71°C
Lubrication system	
Oil Pressure	
Idle speed	48.3 kPa
Rated speed	254 kPa
Max. allowable oil temperature	129°C
Oil Pan capacity - Low/High	26.5-34.1 L
Total system capacity	34.1 L

Air induction system	
Maximum allowable intake air restriction	
with clean filter element	3.7kPa
with dirty filter element	6.2kPa
Exhaust system	
Max. allowable back pressure	10。2kPa
Max Allowable Static Bending Moment at Exhaust Outlet Flange	14 N·m

Cooling system	
Coolant Capacity-Engine	14 L
Engine Water Flow @2.5psi Friction Head	326 L/min
Engine Water Flow @Maximum Friction Head	303 L/min
Minimum Pressure Cap Rating at Sea Level	103.4 kPa
Max Coolant (Top Tank) Temperature for Standby/Prime Power	104°C / 104°C
Thermostat (Modulating) Range	82-94°C
Max Intake Manifold Temp Warning/Shutdown	93°C / 113°C

Electric system	
System Voltage	24V
Minimum Recommended Battery Capacity @-18°C	900 CCA
Max Starting Circuit Resistance	0.002 ohm
Max Current Draw of the System	900 A
Minimum Cranking Speed	150 rpm
Minimum Ambient Temp for Unaided Cold Start	-12°C

Alternator specification			
Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	Н
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



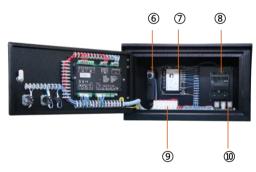
Control system Introduction

Deepsea 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



- ①Emergency stop button
- ②Power switch
- ③Power indicator
- Operation buttons
- **⑤LCD** display



- **6** Voltage and frequency trimmer

⑦Governor

®Charger

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 anticorrosion 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









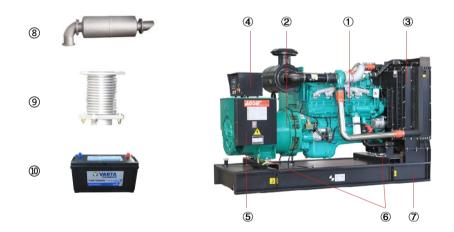




Decomposition diagram introduction of AOSIF Typical Canopy



Standard supply scope:



- ① Engine
- ② AC Alternator
- ③ Cooling Radiator
- 4 Auto Start Control Panel
- S Main Ciruit Breaker
- 6 Built in Shock Pad
- High Strength Frame
- Exhaust silencer
- Bellow
- Starting battery

Optional supply scope:

Genset	Engine	Alternator	Control system
 Tool box Base fuel tank External daily fuel tank Trailer 	Fuel heaterFuel and water separator	 Temp. detector for winding and bearing PMG Antirust, mildew and salt fog treatment Anti condensation heater 	 ATS Synchronization System Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
ABBSchneider	Low fuel level alarmAuto Fuel PumpT Vlave	Lub oil heaterTempsensorOil drain Pump	• Elec.coolant Heater



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.