AOSIF Cummins Series Product introduction





Model AC234 Generator set 213KVA/170KW





General Performance Data

Prime Power	213KVA/170KW	Engine	Brand	Cummins
Stand by Power	234KVA/187KW	Ligine	Model	6CTAA8.3-G2
Frequency/Speed	60Hz/1800rpm	Control module	Deepse	ea 6120
Rated Power Factor(cos ϕ)	0.8	Rated Current	25	6A
Standard Voltage	277V/480V	Capacity of Breaker	31	5A
Phases	3	Starting Voltage	DC	24V

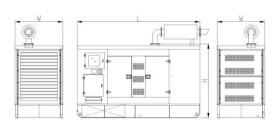
Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	219 g/KW.h	56L/h
100%Prime	214g/KW.h	49 L/h
75%Prime	212g/KW.h	37 L/h
50%Prime	218 g/KW.h	25 L/h
25%Prime	258 g/KW.h	15 L/h

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

Dimensions and Weights

Туре	Open	Silent
Length(mm)	2450	3600
Width(mm)	950	1200
Height(mm)	1650	2000
Weight(kg)	1800	2500
Base fuel tank volume (L)	350	350





Engine specification

Basic	parameter

Prime Power190kw /255HPStandby Power210kw /281HPInduction systemTurbocharged, air - to - air coldGovernorElectronic speedBore x Stroke114x135mmDisplacement8.3LCompression ratio18.0:1Oil Capacity(Total)27.6LCoolant Capacity(Engine only)12.3LFuel SystemDC24V		
No. of cylinder6Type4 cycle, Vertical JanderPrime Power190kw / 255 HPStandby Power210kw / 281 HPStandby Power114ku 281 HPGovernorElectronic speedBore x Stroke114ku 35 mmDisplacement8.31Compression ratio18.01Old Capacity (Total)27.61Coloant Capacity (Engine ont)12.31Charking Motor VoltageDozd VoltageFuel SystemS6 LyhStape System56 LyhCharlen speed103 kPaCharlen speed276-414 kPaFuel Speed276-414 kPaMax. allowable flow of the speed276-414 kPa	Manufacturer	dongfeng Cummins
Type4 cycle, Vertical In-linePrime Power190kw /255HPStandby Power210kw /281HPInduction systemTurbocharged, air to coldGovernorElectronic speedBore x Stroke114x135mmDisplacement8.31Compression ratio18.0:1Oil Capacity(Total)27.6LColant Capacity(Engine only)12.3LCranking Motor VoltageDC24VType Injection systemS6 L/hMin. Allowable flow of fuel to fuel pump56 L/hCil Pressure103kPaCil Pressure276-414kPaMax. allowable oil temperature121°CMax. allowable oil temperatureN/A	Model	6CTAA8.3-G2
Prime Power 190kw / 255HP Standby Power 210kw / 281HP Induction system Turbocharged, air to charged, air cold Governor Electronic speed Bore x Stroke 114x135mm Displacement 8.3L Compression ratio 18.0:1 Oil Capacity(Total) 27.6L Coolant Capacity(Engine only) 12.3L Type Injection system DC24V Min. Allowable flow of fuel to fuel pump 56 L/h Oil Pressure 103kPa Coil Pressure 103kPa Max. allowable oil temperatue 121°C Max. allowable oil temperatue N/A	No. of cylinder	6
Standby Power210kw / 281HPInduction systemTurbocharged, air coldGovernorElectronic speedBore x Stroke114x135mmDisplacement8.3LCompression ratio18.0:1Oil Capacity(Total)27.6LCoolant Capacity(Engine only)12.3LFuel SystemDC24VType Injection systemS6 L/hMin. Allowable flow of fuel to fuel pump56 L/hOil Pressure103kPaRated speed276-414kPaMax. allowable oil temperatureN/A	Туре	4 cycle, Vertical In-line
Induction system Turbocharged, air - to cair cold Governor Electronic speed Bore x Stroke 114x135mm Bore x Stroke 114x135mm Displacement 8.3L Compression ratio 18.0:1 Oil Capacity(Total) 27.6L Coolant Capacity(Engine only) 12.3L Cranking Motor Voltage DC24V Fuel System DC24V System 56 L/h Uir Pressure 103kPa Coil Pressure 103kPa Fu-Rated speed 276-414kPa Max. allowable oil temperature N/A	Prime Power	190kw /255HP
Induction system- air coldGovernorElectronic speedBore x Stroke114x135mmDisplacement8.3LCompression ratio18.0:1Oil Capacity(Total)27.6LCoolant Capacity(Engine only)12.3LCoolant Capacity(Engine only)12.3LCranking Motor VoltageDC24VFuel SystemDC24VType Injection system56 L/hMin. Allowable flow of fuel to fuel pump56 L/hOil Pressure103kPaOil Pressure103kPaIdle speed103kPaMax. allowable oil temperature121°COffset sump oil capacity: low/highN /A	Standby Power	210kw /281HP
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Coolant Capacity(Engine only) 12.3L Cranking Motor Voltage DC24V Fuel System DC24V Fuel System North Oil P7100 inline pump Min. Allowable flow of fuel to fuel pump 56 L/h Lubrication system 56 L/h Fuel System 103kPa Cil Pressure 103kPa Idle speed 103kPa Max. allowable oil temperature 121°C Offset sump oil capacity: low/high N /A	Compression ratio	18.0:1
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Rated speed276-414kPaMax. allowable oil temperature121℃Offset sump oil capacity: low/highN /A	Oil Pressure	
Max. allowable oil temperature121℃Offset sump oil capacity: low/highN /A	Idle speed	103kPa
Offset sump oil capacity: low/high N /A	Rated speed	276-414kPa
	Max. allowable oil temperature	121℃
Total system capacity 27.6L	Offset sump oil capacity: low/hig	gh N /A
	Total system capacity	27.6L

Air induction system

Maximum allowable intake air restriction	
with clean filter element	3.7kPa
with dirty filter element	6.2kPa
Intake Air alarm temperature	82°C
Exhaust system	
Max. allowable back pressure	10kPa
Standard exhaust pipe diameter	75mm

Cooling system	
Coolant capacity	
Engine only	12.3L
Total system	33.5L
With heat exchanger	21.2L
Standard thermostat(modulating) range	82-95 ℃
Minimum cap pressure	69kPa
Max. allowable top tank temerature for stand by/prime power	104/100 ℃

Electric system

Min. recommended battery capacity (24V)

10°C(50°F) & above- 0°F CCA	N/A
0°C(32°F) to 10°C(50°F)- 0°F CCA	N/A
18°C(0°F) to 0°C(32°F)- 0°F CCA	N/A
Max. allowable resistance of Starting circuit	0.002ohm
Starter(heave,Anode)	DC24V
Battery recharge system, negative ground	40ampere

Alternator specific	ation		
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



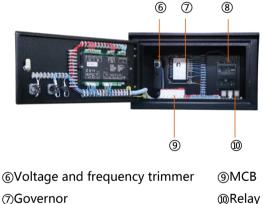
Control system Introduction

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
④Operation buttons
⑤LCD display



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

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

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
 - 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 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.
- 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
- (5) Main Ciruit Breaker
- 6 Built in Shock Pad
- ⑦ High Strength Frame
- (8) Exhaust silencer
- Bellow
 Bel
- ③ Starting battery

Optional supply scope:

Genset	Engine	Alternator	Control system
 Tool box Base fuel tank External daily fuel tank Trailer 	 Fuel heater Fuel 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 alarm Auto Fuel Pump T 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.



XIAMEN AOSIF ENGINEERING LTD.

Marketing Center: Unit 1001,No.1 of Cheng Yi North Street,Software Park Phase III ,Xiamen ,China; Factory: No.1088 Tangbian, Changtai Economic Development Zone, Zhangzhou,Fujian,China. Website: www.aosif.com









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