







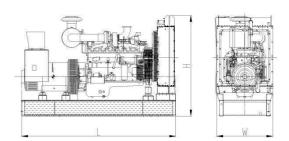
Model AC83 Generator set **75KVA/60KW**



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General Performance Data						
Prime Power	75KVA/60KW	Engine	Brand	Cummins		
Stand by Power	83KVA/66KW	Lingine	Model	4BTA3.9-G2		
Frequency/Speed	60Hz/1800rpm	Control module	Deepsea 7120			
Rated Power Factor(cosφ)	0.8	Rated Current	19	7A		
Standard Voltage	127V/220V	Capacity of Breaker	225A			
Phases	3	Starting Voltage	DC24V			

Fuel consumption				
Rated output	Fuel consumption rate			
100%Standby	216 g/KW.h	19.4 L/h		
100%Prime	214 g/KW.h	17.4 L/h		
75%Prime	220 g/KW.h	13.4 L/h		
50%Prime	233 g/KW.h	9.5 L/h		
25%Prime	298 g/KW.h	6.1 L/h		



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

Dimensions and Weights				
Туре	Open	Silent		
Length(mm)	1980	2450		
Width(mm)	750	1000		
Height(mm)	1350	1570		
Weight(kg)	950	1400		
Base fuel tank volume (L)	125	125		

Engine specification

Basic parameter		Air induction system	
Manufacturer	dongfeng Cummins	Maximum allowable intake air restriction	
Model	4BTA3.9-G2	with clean filter element 3.	
No. of cylinder	4	with dirty filter element	6.2kPa
Туре	4 cycle, Vertical In-line	Intake Air alarm temperature	82°C
Prime Power	67kw /90HP	Exhaust system	
Standby Power	74kw /99HP	Max. allowable back pressure	10kPa
Induction system	Turbocharged & Aftercooled	Standard exhaust pipe diameter	75mm
Governor	Electronic speed		
Bore x Stroke	102x120mm	Cooling system	
Displacement	3.9L	Coolant capacity	
Compression ratio	18.0:1	Engine only	7.2L
Oil Capacity(Total)	10.9L	Total system	20.8 L
Coolant Capacity(Engine only)	7.2L	With heat exchanger	13.6L
Cranking Motor Voltage	DC24V	Standard thermostat(modulating) range	82-95 ℃
Fuel System		Minimum cap pressure	69kPa
Type Injection system	BYC Type A inline pump	Max. allowable top tank temerature for stand by/prime power	104/100 ℃
Min. Allowable flow of fuel to fuel pump	19.4 L/h		
Lubrication system		Electric system	
Oil Pressure	2071-0-	Min. recommended battery capacity (24V)	
Idle speed	207kPa	10°C(50°F) & above- 0°F CCA 3	
Rated speed	345kPa	0°C(32°F) to 10°C(50°F)- 0°F CCA 312	
Max. allowable oil temperature	121℃	18°C(0°F) to 0°C(32°F)- 0°F CCA 312	
Offset sump oil capacity: low/hig	h 9.5 /8.5L	Max. allowable resistance of Starting circuit	0.002ohm
Total system capacity	10.9L	Starter(heave, Anode)	DC24V
		Battery recharge system, negative ground	40ampere
Alternator specifica	tion		
Phases	3	Coating Vacuum impreg	nation
Poles	4	Insulation class H	
Power factor(cosφ)	0.8	Protection IP23	
Winding connection	Star	Excitation system Self-excite	ed
Winding pitch	2/3	Bearing Single Beari	ing
Voltage regulator type	AVR	Coupling Flexible dis	sc

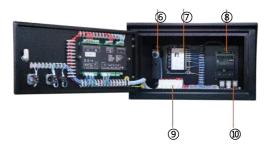
Control system Introduction

Deepsea 7120 Auto start & auto mains failure control panel

Deepsea 7120 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 includes even inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software

(S) (4) (3) (2) (1)

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



- **6** Voltage and frequency trimmer

(7)Governor

®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

Soundproof Canopy Introduction:

Silent Type:

• The vertical angle structure makes the appearance beautiful

The drainage outlets are all connected to the outside for easy operation

• High quality coating powder, chemical surface treatment &

100-120um coating thickness greatly improving the anti-

corrosion and anti rust level

- carbon hinge & door lock are beautiful and anti-rust
- 1.8mm cold rolled plate used makes the body more solid
- The bottom forklift and loading port design enables easy

loading and unloading

 \bullet 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

• High density foam used inside effectively reduces noise

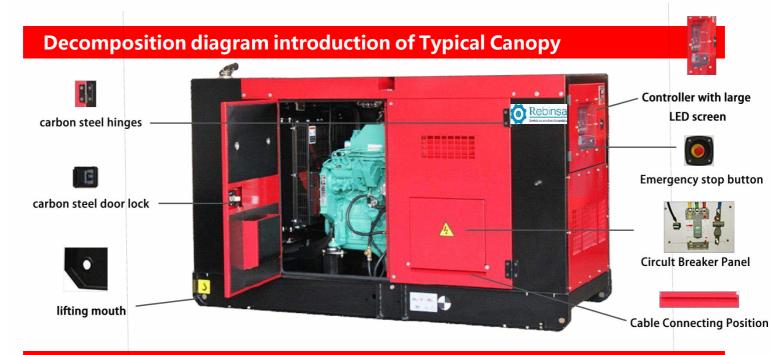
• The built-in base fuel tank with fuel filler set on the shell

facilitates refueling

- 180° revolvable and disassemble door for easy maintenance.
- Emergency stop button mounted on the canopy exterior for urgency.



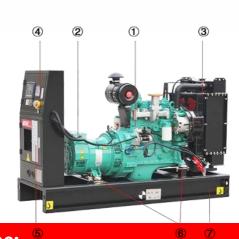




Standard supply scope:







- Engine
- **AC Alternator**
- **Cooling Radiator** 3
- **Auto Start Control Panel**
- Main Ciruit Breaker
- 6 **Built in Shock Pad**
- High Strength Frame
- Exhaust silencer
- Bellow 9
- Starting battery

Optional supply scope:

Genset

- Tool box
- Base fuel tank
- External daily fuel tank
- Trailer

Engine

- Fuel heater
- Fuel and water
- separator

Alternator

- Temp. detector for winding and bearing
- PMG
- Antirust, mildew and salt fog treatment
- Anti condensation heater

Control system

- ATS
- Synchronization System
- Adjustable earth relay

Breaker

- ABB
- Schneider

Fuel system

- Low fuel level alarm
- Auto Fuel Pump
- T Vlave

Lub-oil system

- Lub oil heater
- Temp.-sensor
- Oil drain Pump

Cooling system

• Elec.coolant Heater

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