

Cummins Series

Product introduction



Model AC935 Generator set

935 kva, 748 kw. STD



General Performance Data

Prime Power	850 kva, 680 kw
Stand by Power	935 kva, 748 kw
Frequency/Speed	50Hz/1500rpm
Rated Power Factor(cosφ)	0.8
Standard Voltage	230V/400V
Phases	3

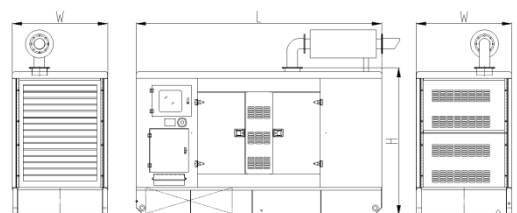
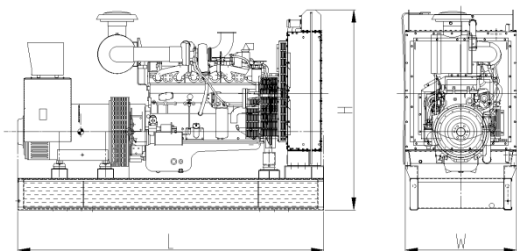
Engine	Brand	Cummins
	Model	KTA38-G2A
Control module	Deepsea 6120	
Rated Current	1313A	
Capacity of Breaker	1600A	

Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	204 g/KW.h	217L/h
100%Prime	203 g/KW.h	196L/h
75%Prime	209 g/KW.h	152L/h
50%Prime	199 g/KW.h	108L/h
25%Prime	158 g/KW.h	64.2L/h

Standards followed

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



Dimensions and Weights

Type	Open	Silent
Length(mm)	4200	5800
Width(mm)	1760	2280
Height(mm)	2530	2500
Weight(kg)	7650	10600
Base fuel tank volume (L)	1550	1550

Engine specification

Basic parameter			
Manufacturer	Cummins	Max oil temperature (°C)	105
Model	KTA38-G2A	Consumption rate (g/kW.h)	≤2.04
Cyl.	12	Number of teeth	130
Air intake mode	Turbocharged, Aftercooled	Water tank capacity (L)	8
Main power (kW)	66	Cooling water capacity in diesel engine(L)	8
Way of burning	Direct injection type	Overall dimension (mm) (L×W×H)	1032*615*895
Bore diameter×stroke (mm)	105×120		
Displacement (L)	4.15 L		
Calibration speed (r/min)	1500		
Highest no-load speed(r/min)	≤1575		
Lowest no-load speed(r/min)	≤650		
Fuel consumption rate(g/kW.h)	≤210		
Crankshaft rotating direction(ace to output end)	Anticlockwise		
Cooling method	Forced water cooling		
Lubricating method	Pressure splash composite		
Starting method	Electric start		
Net mass (kg)	420		
Cylinder working sequence	1-3-4-2		
Exhaust temperature after turbing (°C)	≤600		
Intake pipe diameter (mm)	50		
Oil sump capacity(L)	13		

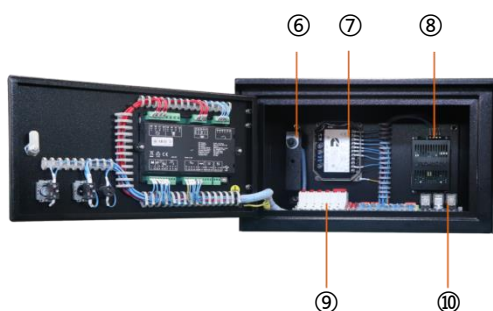
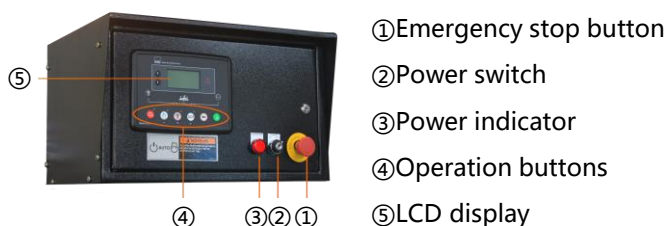
Alternator specification LEROY SOMER : LSA 49.3 L9

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 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, kVA_r 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

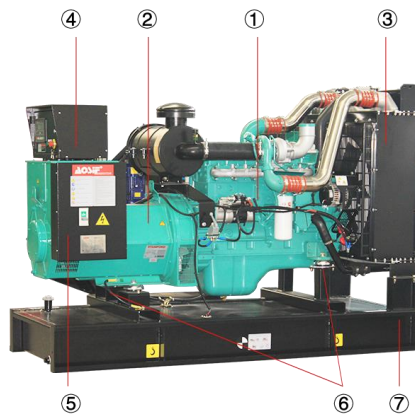
Protection:

- 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

Decomposition diagram introduction of Standard Canopy



Standard supply scope:



- ① Engine
- ② AC Alternator
- ③ Cooling Radiator
- ④ Auto Start Control Panel
- ⑤ Main Circuit Breaker
- ⑥ Built in Shock Pad
- ⑦ High Strength Frame
- ⑧ Exhaust silencer
- ⑨ Bellow
- ⑩ Starting battery