

Cummins Series

Product introduction



Model AC66 Generator set

66KVA/53KW - STD



General Performance Data

Prime Power	60KVA/43KW
Stand by Power	66KVA/53KW
Frequency/Speed	50Hz/1500rpm
Rated Power Factor(cosφ)	0.8
Standard Voltage	230V/400V
Phases	3

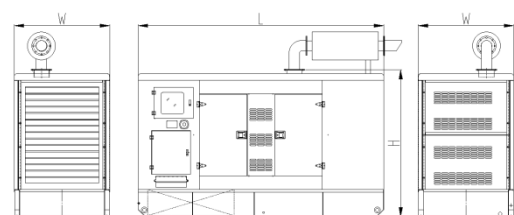
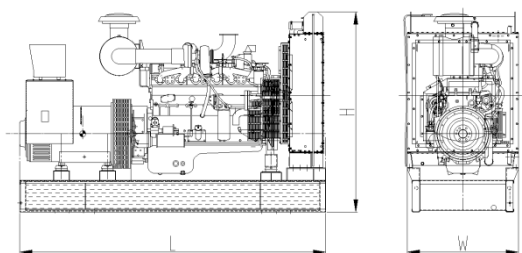
Engine	Brand	Cummins
	Model	4BTAA3.3-G14
Control module	Deepsea 6110	
Rated Current	135A	
Capacity of Breaker	160A	
Starting Voltage	DC24V	

Fuel consumption

Rated output	Fuel consumption rate
100%Standby	19L/h
100%Prime	15L/h
75%Prime	11 L/h
50%Prime	8L/h
25%Prime	4L/h

Standards followed

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



Dimensions and Weights

Type	Silent
Length(mm)	2000
Width(mm)	750
Height(mm)	1250
Weight(kg)	135

Engine specification

Basic parameter

Manufacturer	Cummins
Model	4BTAA3.3-G14
No. of cylinder	6
Type	4 cycle, Vertical In-line
Prime Power	60kw /84HP
Standby Power	66kw /88HP
Induction system	Turbocharged
Governor	Electronic speed
Bore x Stroke	95 x115mm
Displacement	303L
Compression ratio	16.3:1
Oil Capacity(Total)	8L
Coolant Capacity(Engine only)	13L
Cranking Motor Voltage	DC24V

Fuel System

Type Injection system	BYC Type A inline pump
Min. Allowable flow of fuel to fuel pump	34L/h

Lubrication system

Oil Pressure	
---Idle speed	207kPa
---Rated speed	345kPa
Max. allowable oil temperature	121°C
Oil Pan capacity - Low/High	14.2 /12.3L
Total system capacity	16.4L

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	13L
---Total system	22.4L
---With heat exchanger	14.5L
Standard thermostat(modulating) range	82-95°C
Minimum cap pressure	69kPa
Max. allowable top tank temerature for stand by/prime power	104/100 °C

Electric system

Min. recommended battery capacity (24V)	
---10°C(50°F) & above- 0°F CCA	400
--- 0°C(32°F) to 10°C(50°F)- 0°F CCA	400
---18°C(0°F) to 0°C(32°F)- 0°F CCA	400
Max. allowable resistance of Starting circuit	0.002ohm
Starter(heave,Anode)	DC24V
Battery recharge system, negative ground	40ampere

Alternator specification Leroysoner TAL042H

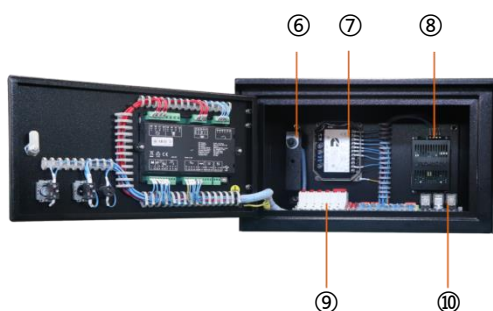
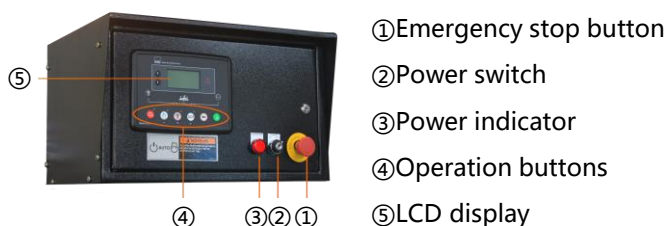
Phases	3
Poles	4
Power factor(cosφ)	0.8
Winding connection	Star
Winding pitch	2/3
Voltage regulator type	AVR

Coating	Vacuum impregnation
Insulation class	H
Protection	IP23
Excitation system	Self-excited
Bearing	Single Bearing
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 Typical Canopy



Standard supply scope:

