#### The power for the better life

#### **MODEL: VG206-IICS**





Genset Model	VG206-IICS	
Prime Power	145KW / 180KVA	
Standby Power	160KW / 200KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	230V/400V	
Phases	Three phases, four wires	
Manufacturer	Vega Power International PTE.LTD	

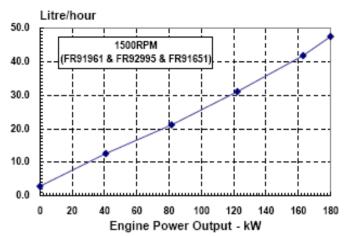
- ♦ Assembled by Cummins diesel engine and Stamford alternator.
- ♦ Three filters as standard, fuel and water separator as optional.
- ♦ Radiator and fan with safety guard.
- ♦ Single bearing alternator IP 23, Insulation Class H.
- ♦ Heavy duty steel as base frame and 8hrs operation base fuel tank.
- ♦ Automatic control panel and 3 poles circuit breaker, internal cable.
- ♦ 12V or 24V battery, battery wires.
- ♦ Battery charger and float battery charger as standard supply scope.
- ♦ Optional soundproof canopy, ATS, synchronization panel, movable trailers.

# **Engine Data:**

Manufacturer	Dongfeng Cummins Engine Co., Ltd.
Model	6CTA8.3-G2
Engine speed	1500rpm
Engine power	
Standby power	180kw / 241HP
Base output power	163kw / 218 HP
Continuous power	133kw /178HP
Air intake way	after-cooled, turbo-charged
Cylinder quantity	6
Bore * Stroke	114*135 mm
Displacement	8.3L
Fuel system	BYC PB/SEGMA electrical governor
Governor Regulation	≤3%
Low idle	700-900 rpm
Piston speed	6.8 m/s
Friction energy output	17 kw

## **Fuel Consumption:**

	•			
output pov	ver		fuel cons	sumption
%	KW	HP	g/KW.h	L/h
standby po	standby power			
100	180	241	218	48
base outpu	base output power			
100	163	218	212	42
75	122	164	210	31
50	82	109	214	21
25	41	55	255	13
continuse power				
100%	133	178	211	34



Exhaust system:

Max. back pressure	10kPa
Diameter of exhaust pipe recommended	75mm
Maximum Static Supported Weight at the Turbocharger Outlet	14N.m
Flange	
Exhaust gas flow (prime power - standby power)	521-578 L/sec
Exhaust gas temperature (prime power - standby power)	536-563 ℃

Air intake system:

Max. air intake resistance	
Dirty Element	6kPa
Minimum Dirt Holding Capacity with Heavy Duty Air Cleaner	25g/cfm
Maximum Temperature Rise from Ambient to the Inlet of the Turbocharger	17 °C
Recommended intake piping size (inner diameter)	75mm
Air intake flow (prime power - standby power)	192-206 L/sec

## **Lubrication system:**

Normal oil pressure range	
idle speed	103 kPa
governor speed	276-414 kpa
Max. oil temperature permitted in oil pan	121 ℃
Minimum required lube system capacity-sump plus filters	27.6L
Angularity of Standard Oil Pan: (Values stated are for	45 °
intermittent operation only): (any direction)	45

Fuel system:

Type Injection System	BYC PB direct injection
Maximum Restriction at Lift Pump	27 kPa
Maximum Allowable Head on Injector Return Line (Consisting of Friction Head and Static Head)	33.7 kPa
Maximum Fuel Inlet Temperature	71 ℃
Maximum Fuel Flow on the Supply Side of the Fuel Pump	193kg/hr

Cooling system:

Coolant capacity – engine only	12.3L
Maximum Coolant Friction Head External to Engine	28 kPa
Maximum Static Head of Coolant Above Engine Crank Centerline	18.3m
Standard Thermostat (Modulating) Range	82-95 ℃
Min. opening pressure of radiator cap	69 kPa
Maximum Top Tank Temperature for Standby/Prime Power	104 / 100 °C
Engine coolant flow (prime power - standby power)	3.3 L/s

Electric system:

Cranking Motor (Heavy Duty, Positive Engagement)	12V	24V
Battery Charging System, Negative Ground	63A	40A
Maximum Allowable Resistance of Cranking Circuit	0.00075 Ω	0.002 Ω

#### **Emission:**

Gaseous Emissions per GB 20891-2007	
Weight-Specific NOx	9.2 g/KW.h
Weight-Specific HC	1.3 g/KW.h
Weight-Specific CO	5.0 g/KW.h
Weight-Specific Particulates	0.54 g/KW.h

# **Alternator Specifications:**

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	UCI274H
Output power	160KW
AVR model	AS440
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude	≤ 1000 m
Overspeed	2250RPM
Number of Pole	4
Exciter type	Self Excited
Insulation class	Н
Voltage regulation	±1%
protection	IP23
Waveform distortion	no load < 1.5% non-distorting balanced linear load < 5.0%
Telephone interference	THF< 2%
Bearing	single
Coupling	Direct

### Alternator general data:

- ♦ Operate either 50Hz or 60Hz.
- ♦ Standard enclosure IP23, but IP44, IP55 for option
- ♦ Insulation class H.
- ♦ Shunt excitataion systems.
- ♦ PMG system for options.
- ♦ Automatic voltage regulator
- ♦ Single bearing alternator

- ♦Stator grease insulation covered
- ♦Rotator and excitation high polymer
- ♦ Resist the corruption oil and acid
- ♦ Rotator balance is in accordance with BS5625 standard 12.5
- ♦ High-quality lubrication sealed long-time bearing
- lacktriangle Rotator silicon steel close tight

# **Control System**



The **DSE6120** is made by DEEPSEA and is a new control module for single gen-set applications, and it is an Automatic Start Control Module and is simple to operate, and the module includes USB, RS232 and RS485

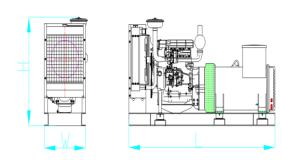
for expansion device connectivity.

Specifications: Frequency meter, Ammeter, Voltmeter Alarms and faults
Oil pressure, water temperature, No start-up, Overspeed, Min/max
alternator, Min/max battery voltage, Low fuel level, Emergency stop.

Engine parameters: Hours counter, Oil pressure, Water, temperature, Engine speed, Battery voltage, Fuel level.

## **Weight and Dimensions**

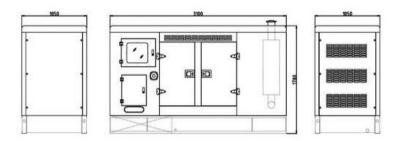
## 1.Open Version:



Open Type (Standard Configuration)
Overall Size: 2370×840×1560mm(L\*W\*H)

Weight: 1730kg

## 2. Soundproof Version:



Soundproof Type

Overall size: 3200× 1100×1880mm(L\*W\*H)

Weight: 2270kg